4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKSA

Lab Name: COMPUCHEM Contract: 500944

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Lab File ID: CB990318B51.D Lab Sample ID: VBLKSA

Date Analyzed: 03/18/99 Time Analyzed: 1801

GC Column:SP624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50051

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS82	931579	CN031579B51.D	1846
02	EDP031499	931510	CN031510B51.D	1933
03	T031499	931511	CN031511B51.D	2006
04				
05				
06				
07				
08				
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13				
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKSA

Project: Date Sampled: _____

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER Lab Sample ID: VBLKSA

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB990318B51.D

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

% Moisture: not dec. _____ Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	0.5		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	0.5	0.2	J
75-35-4	1,1-Dichloroethene	0.5		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.5		U
107-06-2	1,2-Dichloroethane	0.5		U
71-55-6	1,1,1-Trichloroethane	0.5		U
56-23-5	Carbon Tetrachloride	0.5		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.5		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.5		U
71-43-2	Benzene	0.5		U
10061-02-6	trans-1,3-Dichloropropene	0.5		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.5		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.5		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.5		U
74-87-3	Chloromethane	0.5		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	2		U
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	2		U
156-60-5	trans-1,2-Dichloroethene	0.5		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKSA

Project: Date Sampled: _____

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER Lab Sample ID: VBLKSA

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB990318B51.D

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

% Moisture: not dec. _____ Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKKU

Lab Name: COMPUCHEM Contract: 500944

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Lab File ID: CC990318A57.D Lab Sample ID: VBLKKU

Date Analyzed: 03/18/99 Time Analyzed: 1523

GC Column:SP624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50057

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS79	931462	CN031462A57.D	1703
02	T031199	931311	CN031311A57.D	1824
03	EMW031199	931308	CR031308A57.D	1905
04				
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKKU

Project: Date Sampled: _____

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER Lab Sample ID: VBLKKU

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CC990318A57.D

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

% Moisture: not dec. _____ Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	0.5		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	0.5	0.1	J
75-35-4	1,1-Dichloroethene	0.5		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.5		U
107-06-2	1,2-Dichloroethane	0.5		U
71-55-6	1,1,1-Trichloroethane	0.5		U
56-23-5	Carbon Tetrachloride	0.5		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.5		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.5		U
71-43-2	Benzene	0.5		U
10061-02-6	trans-1,3-Dichloropropene	0.5		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.5		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.5		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.5		U
74-87-3	Chloromethane	0.5		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	2		U
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	2		U
156-60-5	trans-1,2-Dichloroethene	0.5		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKKU

Project: Date Sampled: _____

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER Lab Sample ID: VBLKKU

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CC990318A57.D

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

% Moisture: not dec. _____ Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 500944

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

	SAMPLE NO.	SMC1 (DBF) #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB)	TOT OUT
01	EDP031499	117	97	128	125	0
02	EMW031199	91	89	113	126	0
03	T031199	90	92	114	122	0
04	T031499	120	109	117	118	0
05	VBLKKU	87	88	109	122	0
06	VBLKSA	116	99	112	120	0
07	VLCS79	93	98	113	106	0
08	VLCS82	118	114	116	112	0
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			QC LIMITS
SMC1	(DBF)	= Dibromofluoromethane	(85-126)
SMC2	(DCE)	= 1,2-Dichloroethane-d4	(81-141)
SMC3	(TOL)	= Toluene-d8	(76-135)
OTHER	(BFB)	= Bromofluorobenzene	(78-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS82

Lab Name: COMPUCHEM Contract: 500944

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Lab Sample ID: 931579 LCS Lot No.: ME40

Lab File ID: CN031579B51.D Date Analyzed: 03/18/99

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
1,1,1-Trichloroethane	5.00	5.39	108	50-150
1,1,2-Trichloroethane	5.00	4.74	95	50-150
1,2-Dichloroethane	5.00	5.30	106	50-150
Benzene	5.00	5.38	108	50-150
Bromodichloromethane	5.00	5.12	102	50-150
Bromoform	5.00	4.43	88	50-150
Bromomethane	5.00	4.90	98	50-150
Carbon Tetrachloride	5.00	5.40	108	50-150
Carbon disulfide	5.00	5.58	112	50-150
Chloroethane	5.00	5.13	103	50-150
Dibromochloromethane	5.00	4.74	95	50-150
Methylene Chloride	5.00	5.41	108	50-150
Styrene	5.00	4.99	100	50-150
Tetrachloroethene	5.00	4.98	100	50-150
Trichloroethene	5.00	5.48	110	50-150
cis-1,2-Dichloroethene	5.00	5.39	108	50-150
cis-1,3-Dichloropropene	5.00	5.32	106	50-150
trans-1,2-Dichloroethene	5.00	5.19	104	50-150
trans-1,3-Dichloropropene	5.00	5.00	100	50-150
Xylene (total)	15.00	16.40	109	50-150
2-butanone	25.00	33.62	134	50-150
2-hexanone	25.00	20.86	83	50-150
4-Methyl-2-pentanone	25.00	21.39	86	50-150
Acetone	25.00	29.57	118	50-150
1,1,2,2-Tetrachloroethane	5.00	4.50	90	50-150
1,1-Dichloroethane	5.00	5.21	104	50-150
1,1-Dichloroethene	5.00	5.35	107	50-150
1,2-Dichloropropane	5.00	5.17	104	50-150
Chlorobenzene	5.00	4.92	98	50-150
Chloroform	5.00	5.33	106	50-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS82

Lab Name: COMPUCHEM Contract: 500944

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Lab Sample ID: 931579 LCS Lot No.: ME40

Lab File ID: CN031579B51.D Date Analyzed: 03/18/99

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
Chloromethane	5.00	5.68	114	50-150
Ethylbenzene	5.00	5.13	103	50-150
Toluene	5.00	5.21	104	50-150
Vinyl Chloride	5.00	5.20	104	50-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 34 total.

COMMENTS:

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS79

Lab Name: COMPUCHEM Contract: 500944

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Lab Sample ID: 931462 LCS Lot No.: ME40

Lab File ID: CN031462A57.D Date Analyzed: 03/18/99

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
1,1,1-Trichloroethane	5.00	4.81	96	50-150
1,1,2-Trichloroethane	5.00	5.77	115	50-150
1,2-Dichloroethane	5.00	4.62	92	50-150
Benzene	5.00	5.49	110	50-150
Bromodichloromethane	5.00	6.51	130	50-150
Bromoform	5.00	5.64	113	50-150
Bromomethane	5.00	5.20	104	50-150
Carbon Tetrachloride	5.00	4.88	98	50-150
Carbon disulfide	5.00	4.83	97	50-150
Chloroethane	5.00	5.16	103	50-150
Dibromochloromethane	5.00	5.81	116	50-150
Methylene Chloride	5.00	4.83	96	50-150
Styrene	5.00	6.11	122	50-150
Tetrachloroethene	5.00	5.42	108	50-150
Trichloroethene	5.00	5.56	111	50-150
cis-1,2-Dichloroethene	5.00	5.68	114	50-150
cis-1,3-Dichloropropene	5.00	6.54	131	50-150
trans-1,2-Dichloroethene	5.00	5.58	112	50-150
trans-1,3-Dichloropropene	5.00	6.18	124	50-150
Xylene (total)	15.00	19.61	131	50-150
2-butanone	25.00	28.94	116	50-150
2-hexanone	25.00	25.26	101	50-150
4-Methyl-2-pentanone	25.00	24.38	98	50-150
Acetone	25.00	25.39	102	50-150
1,1,2,2-Tetrachloroethane	5.00	4.89	98	50-150
1,1-Dichloroethane	5.00	5.77	115	50-150
1,1-Dichloroethene	5.00	5.61	112	50-150
1,2-Dichloropropane	5.00	5.18	104	50-150
Chlorobenzene	5.00	5.96	119	50-150
Chloroform	5.00	5.23	105	50-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS79

Lab Name: COMPUCHEM Contract: 500944

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Lab Sample ID: 931462 LCS Lot No.: ME40

Lab File ID: CN031462A57.D Date Analyzed: 03/18/99

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
Chloromethane	5.00	3.92	78	50-150
Ethylbenzene	5.00	5.73	115	50-150
Toluene	5.00	5.77	115	50-150
Vinyl Chloride	5.00	4.66	93	50-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 34 total.

COMMENTS:

Dayton 99-215

NONCLP CASE DELIVERABLES SUMMARY SHEET

DVS 3/26/99
MEP 3/31/99

SOW _____ INTEGRATOR:

CLIENT CHRYSLER CORPORATION CASE PRINTER _____

DATE 03/19/1999 CASE AUDITOR _____

PC _____ ACCOUNT 500944 TECH REVIEWER Roy Fulton

CASE/SDG 34180 21502 SAS FRACTION: VOLATILE
Custom Format Diskette MATRIX: WA
SDG: 500944 LOG PAGE 1355 / 1202 REPORT STYLE 1

SCCN	TYPE	ID	S	V	P	RECDATE	DUEDATE	LABINST
931311	PR	T031199		2		3/12/99	3/22/99	RFA215/TCL VOC
931511	PR	T031499		2		3/16/99	3/26/99	RFA215/TCL VOCs
931308	PR	EMW031199		2		3/12/99	3/22/99	RFA215/TCL VOC
931510	PR	EDP031499		2		3/16/99	3/26/99	RFA215/TCL VOCs
931309	SS			2		3/12/99	3/22/99	
931310	SS			2		3/12/99	3/22/99	

TOTAL SAMPLES = 6
TOTAL PRODUCTION SAMPLES = 4
TOTAL SPIKES SAMPLES = 2
TOTAL BLANKS SAMPLES = 0
TOTAL AMT: $1,500

BILLABLE REPEATS
_____
_____
_____

RELEASED BY: _____ DATE: ____/____/____

Trip Blanks
Equipment "

21502

3/26

21501 - V
21503 - ~~V~~

CompuChem
a Division of Liberty Analytical
501 N. Madison Avenue
Cary, NC 27513

SDG NARRATIVE
CASE:34180
SDG:21502
CONTRACT:500944

SAMPLE IDENTIFICATIONS: T031199 T031499 EMW031199 EDP031499

The four(4) water samples listed above were received intact, properly refrigerated,with proper chain of custody(COC) documentation on March 12, and 16, 1999. The samples were prepared and analyzed following SW846 Method 8260B. All of these samples were submitted for volatile only analysis.

VOLATILES:

Analysis holding time requirements were met for these samples. The majority of samples contained methylene chloride above the reporting limits.

No Tentatively Identified Compound (TIC) data is provided as requested by the client.

All of the surrogates met recovery criteria and all of the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blanks met all quality control criteria and both contained methylene chloride below the reporting limits.

The associated Laboratory Control Samples(LCS's) met all QC acceptance limits.

No duplicate matrix spikes were generated as all samples were field QC samples.

The daily calibration standard CV990318A57 failed the minimum response factor criteria for bromoform. Due to the fact that the associated samples did not contain this analyte, we are reporting the data with reference to this qualifier.

The initial calibrations analyzed for this case-SDG were analyzed by Method 8260 B. Per the methodology, all compounds are to meet a Percent Relative Standard Deviation(%RSD) limit of no more than 15%. CompuChem has chosen to apply the option in this method of determining the mean RSD values for all analytes in the calibration.

When there are analytes with %RSDs greater than the limit, proof of calibration linearity can be shown if the average of all compounds in the initial calibration meet the same 15% limit. Based on Method 8260B requirements we are providing a list which shows all compounds that fail to meet the limit (designated by the <- sign), and their associated %RSDs. Finally the average of all %RSDs from all compounds in the initial calibration is shown, confirming the usability of the initial calibration and any data that follows it.

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 listed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee,as verified by the following signature.

Roy M. Sutton
Development Chemist
March 23, 1999

GC and GC/MS Column and Trap Specifications Table

COLUMNS

Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
GC Laboratory				
Restek	RTX-1701	0.53	0.5	30
J & W	DB-608	0.53	0.83	30
Restek	CLPesticides	0.53	0.5	30
Restek	CLPesticides II	0.53	0.42	30
GC/MS Volatiles Laboratory				
J & W	DB-624	0.53	3.0	30/75
Supelco	SPB-624	0.53	3.0	75
GC/MS Semivolatiles Laboratory				
J & W	DB-5	0.32	1.0	30
Hewlett Packard	HP5-MS	0.25	0.25	30

TRAP

GC/MS Volatiles Laboratory	
	* 1 cm of methyl silicone packing (OV-1 coating) * 8 cm of 2,6-diphenylene oxide polymer (Tenax) * 8 cm of silica gel * 7 cm of coconut charcoal * 0.5 cm of silanized glass wool at each end

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These adjustments are performed by the data reviewer, GC/MS operator, or GC chemist. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration of each compound to demonstrate the accuracy of that process. Adjustments are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count as possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that the data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

With the introduction of the current EPA CLP SOW (Document Number OLM03.0, plus revisions) additional explanations for manual editing/integration are required. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC data packages.

Robert E. Meierer
Vice President

Revision 4 (10/8/97)

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL) (or Reporting Limit) will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicates the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

S : This flag indicates that an analyte was detected by a single column GC analysis but the result was below the Reporting Limit. This flag is only used when clients request a second (confirmation) column analysis after detecting an analyte above the Reporting Limit in the initial, single column analysis. This flag alerts the data user that only an analyte was detected below the Reporting Limit and a second (confirmation) analysis was not performed.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

Laboratory Notice

Initial Calibration Date(s): March 17, 1999

Instrument Identifier: INCOS57

An initial calibration was analyzed by Method 8260B. Per the methodology, all compounds are to meet a Percent Relative Standard Deviation (%RSD) limit of no more than 15%. Additional calibration options are provided in the method when the RSD exceeds 15%. CompuChem has chosen to apply the option of determining the mean RSD values for all analytes in the calibration.

When there are analytes with %RSDs greater than the limit, proof of calibration linearity can be shown if the average of all compounds in the initial calibration meet the same 15% limit. Based on Method 8260B requirements, we are providing a list which shows all compounds that fail to meet the limit (designated by the <- sign), and their associated %RSDs. Finally the average of all %RSDs from all compounds in the initial calibration is shown, confirming the usability of the initial calibration and any data that follows it.

Average %RSD for all compounds in this Initial Calibration: 8.158

Data Reviewer/ID# JY /2377

Date March 19,1999

Report Date : 19-Mar-1999 08:38

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 17-MAR-1999 20:07
End Cal Date : 18-MAR-1999 01:12
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50057.i/f990317b.b/W8260-B-25ML.m
Cal Date : 19-Mar-1999 08:32 thornton
Curve Type : Average

Calibration File Names:
Level 1: /chem/f50057.i/f990317b.b/cs990317b57.d
Level 2: /chem/f50057.i/f990317b.b/cw990317b57.d
Level 3: /chem/f50057.i/f990317b.b/cv990317b57.d
Level 4: /chem/f50057.i/f990317b.b/cx990317b57.d
Level 5: /chem/f50057.i/f990317b.b/ct990317b57.d

Compound	12 Level 1	25 Level 2	125 Level 3	250 Level 4	625 Level 5	___ RRF	% RSD	
8 Dichlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
9 Chloromethane	0.17863	0.20651	0.16522	0.14984	0.16934	0.17391	12.064	
10 Vinyl Chloride	0.20070	0.30461	0.25275	0.22963	0.24003	0.24554	15.555	
11 Bromomethane	0.31963	0.37546	0.32968	0.32305	0.35275	0.34012	6.940	
12 Chloroethane	0.19293	0.20065	0.18920	0.19921	0.22605	0.20161	7.159	
13 Trichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
14 Diethylether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
15 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
16 1,1-Dichloroethene	0.34311	0.32183	0.31912	0.33777	0.34837	0.33404	3.884	
17 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
18 1,1,1-trichloro-2,2,2-trifluo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
19 Carbon disulfide	1.00818	1.00894	0.95652	1.07603	1.13093	1.03612	6.553	
20 1,1,2-trichloro-1,2,2-trifluo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
21 Acetone	0.01447	0.01486	0.01035	0.01231	0.01241	0.01288	14.198	
22 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
23 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
24 Methylene Chloride	0.96469	0.78530	0.62258	0.67429	0.63831	0.73704	19.300	<-
25 trans-1,2-Dichloroethene	0.39560	0.35855	0.35746	0.37441	0.37654	0.37251	4.190	
26 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
27 Methyl-tert-butyl ether	0.25973	0.25289	0.24270	0.26985	0.20688	0.24641	9.827	
28 tert-butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
29 n-hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
30 1,1-Dichloroethane	0.68198	0.64721	0.66104	0.66914	0.65716	0.66330	1.972	
31 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
32 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
33 cis-1,2-Dichloroethene	0.38093	0.35128	0.34099	0.34038	0.30671	0.34404	7.729	
34 2-Butanone	0.00599	0.00621	0.00568	0.00608	0.00460	0.00571	11.447	

8.15.5

Report Date : 19-Mar-1999 08:38

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 17-MAR-1999 20:07
End Cal Date : 18-MAR-1999 01:12
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50057.i/f990317b.b/W8260-B-25ML.m
Cal Date : 19-Mar-1999 08:32 thornton
Curve Type : Average

Compound	12 Level 1	25 Level 2	125 Level 3	250 Level 4	625 Level 5	RRF	% RSD	
35 Propionitrile	*****	*****	*****	*****	*****	*****	*****	<-
36 Bromochloromethane	*****	*****	*****	*****	*****	*****	*****	<-
37 Methyl acrylate	*****	*****	*****	*****	*****	*****	*****	<-
38 Methacrylonitrile	*****	*****	*****	*****	*****	*****	*****	<-
39 Tetrahydrofuran	*****	*****	*****	*****	*****	*****	*****	<-
40 Chloroform	0.71169	0.68035	0.67967	0.67333	0.62205	0.67342	4.807	
41 1,1,1-Trichloroethane	0.71326	0.68304	0.69244	0.66885	0.62819	0.67716	4.692	
42 1-chlorobutane	*****	*****	*****	*****	*****	*****	*****	<-
43 Carbon Tetrachloride	0.61001	0.60714	0.61170	0.60010	0.56600	0.59899	3.166	
44 1,1-dichloropropene	*****	*****	*****	*****	*****	*****	*****	<-
45 Pentafluorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
46 Benzene	0.88628	0.83795	0.85351	0.83512	0.76032	0.83462	5.542	
47 1,2-Dichloroethane	0.24123	0.23702	0.22124	0.22882	0.20427	0.22651	6.454	
48 Isobutyl alcohol	*****	*****	*****	*****	*****	*****	*****	<-
49 Crotonaldehyde	*****	*****	*****	*****	*****	*****	*****	<-
50 Trichloroethene	0.35182	0.32050	0.32497	0.34070	0.30877	0.32935	5.158	
51 1,2-Dichloropropane	0.29928	0.29049	0.26952	0.28173	0.28599	0.28540	3.856	
52 Dibromomethane	*****	*****	*****	*****	*****	*****	*****	<-
53 1,4-dioxane	*****	*****	*****	*****	*****	*****	*****	<-
54 Methylmethacrylate	*****	*****	*****	*****	*****	*****	*****	<-
55 Bromodichloromethane	0.31655	0.34336	0.34184	0.37383	0.34710	0.34454	5.906	
56 2-chloroethyl vinyl ether	*****	*****	*****	*****	*****	*****	*****	<-
57 cis-1,3-Dichloropropene	0.19766	0.23267	0.24319	0.26629	0.25055	0.23807	10.733	
58 4-Methyl-2-pentanone	0.09581	0.09424	0.07650	0.07921	0.06615	0.08238	15.225	<-
59 Toluene	0.71546	0.70606	0.76535	0.74451	0.80003	0.74628	5.113	
60 trans-1,3-Dichloropropene	0.21780	0.23675	0.24978	0.25354	0.24690	0.24095	5.961	
61 1,1,2-Trichloroethane	0.16907	0.16878	0.17607	0.18961	0.17974	0.17665	4.880	
62 Ethylmethacrylate	*****	*****	*****	*****	*****	*****	*****	<-
63 Tetrachloroethene	0.35978	0.34691	0.37763	0.36192	0.39831	0.36891	5.348	
64 1,3-Dichloropropane	*****	*****	*****	*****	*****	*****	*****	<-
65 2-hexanone	0.05356	0.06059	0.04709	0.05068	0.04546	0.05147	11.631	
66 Dibromochloromethane	0.25052	0.26210	0.26645	0.26742	0.25262	0.25982	3.014	
67 1,2-Dibromoethane	*****	*****	*****	*****	*****	*****	*****	<-
68 Chlorobenzene	0.75668	0.84533	0.89969	0.90863	0.89554	0.86157	7.265	

Report Date : 19-Mar-1999 08:38

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 17-MAR-1999 20:07
End Cal Date : 18-MAR-1999 01:12
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50057.i/f990317b.b/W8260-B-25ML.m
Cal Date : 19-Mar-1999 08:32 thornton
Curve Type : Average

Compound	12 Level 1	25 Level 2	125 Level 3	250 Level 4	625 Level 5	RRF	% RSD
M 103 Xylene (total)	0.48967	0.50772	0.55812	0.57092	0.58780	0.54285	7.763
S 4 Dibromofluoromethane	0.54400	0.51693	0.48302	0.47897	0.42446	0.48947	9.197
S 5 1,2-Dichloroethane-d4	0.24977	0.22934	0.20349	0.20876	0.18888	0.21605	11.009
S 6 Toluene-d8	1.22870	1.20919	1.24878	1.19948	1.27425	1.23208	2.454
S 7 Bromofluorobenzene	1.94088	1.47466	1.42391	1.40545	1.46716	1.54241	14.563

8A

Report Date : 19-Mar-1999 08:38

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 17-MAR-1999 20:07
End Cal Date : 18-MAR-1999 01:12
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50057.i/f990317b.b/W8260-B-25ML.m
Cal Date : 19-Mar-1999 08:32 thornton
Curve Type : Average

Compound	12 Level 1	25 Level 2	125 Level 3	250 Level 4	625 Level 5	___ RRF	% RSD	
69 1-Chlorohexane	*****	*****	*****	*****	*****	*****	*****	<-
70 1,1,1,2-Tetrachloroethane	*****	*****	*****	*****	*****	*****	*****	<-
71 Ethylbenzene	0.42456	0.43723	0.51089	0.51129	0.57434	0.49166	12.479	
72 m,p-Xylene	0.54072	0.56427	0.65269	0.66539	0.66431	0.61748	9.734	
73 o-Xylene	0.48967	0.50772	0.55812	0.57092	0.58780	0.54285	7.763	
74 Styrene	0.64750	0.69986	0.77132	0.81547	0.82064	0.75096	10.042	
75 Bromoform	0.10426	0.10141	0.10211	0.11348	0.11037	0.10633	5.017	
76 Isopropyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
77 cis-1,4-dichloro-2-butene	*****	*****	*****	*****	*****	*****	*****	<-
78 Bromobenzene	*****	*****	*****	*****	*****	*****	*****	<-
79 1,2,3-Trichloropropane	*****	*****	*****	*****	*****	*****	*****	<-
80 1,1,2,2-Tetrachloroethane	0.68080	0.46340	0.45202	0.50827	0.48799	0.51850	17.998	<-
81 trans-1,4-dichloro-2-butene	*****	*****	*****	*****	*****	*****	*****	<-
82 n-Propyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
83 2-Chlorotoluene	*****	*****	*****	*****	*****	*****	*****	<-
84 4-Chlorotoluene	*****	*****	*****	*****	*****	*****	*****	<-
85 1,3,5-Trimethyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
86 Pentachloroethane	*****	*****	*****	*****	*****	*****	*****	<-
87 tert-Butyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
88 1,2,4-Trimethyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
89 sec-Butyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
90 1,3-Dichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
91 1,4-Dichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
92 p-Isopropyl Toluene	*****	*****	*****	*****	*****	*****	*****	<-
93 Benzyl Chloride	*****	*****	*****	*****	*****	*****	*****	<-
94 1,2-Dichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
95 n-Butyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
96 1,2-diethylbenzene	*****	*****	*****	*****	*****	*****	*****	<-
97 1,2-Dibromo-3-Chloropropane	*****	*****	*****	*****	*****	*****	*****	<-
98 1,2,4-Trichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
99 Hexachlorobutadiene	*****	*****	*****	*****	*****	*****	*****	<-
100 Naphthalene	*****	*****	*****	*****	*****	*****	*****	<-
101 1,2,3-Trichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
*M 1,2-Dichloroethane total	0.28827	0.35487	0.34922	0.35740	0.34163	0.35828	4.975	

Laboratory Notice

Initial Calibration Date(s): March 18, 1999

Instrument Identifier: INCOS51

An initial calibration was analyzed by Method 8260B. Per the methodology, all compounds are to meet a Percent Relative Standard Deviation (%RSD) limit of no more than 15%. Additional calibration options are provided in the method when the RSD exceeds 15%. CompuChem has chosen to apply the option of determining the mean RSD values for all analytes in the calibration.

When there are analytes with %RSDs greater than the limit, proof of calibration linearity can be shown if the average of all compounds in the initial calibration meet the same 15% limit. Based on Method 8260B requirements, we are providing a list which shows all compounds that fail to meet the limit (designated by the <- sign), and their associated %RSDs. Finally the average of all %RSDs from all compounds in the initial calibration is shown, confirming the usability of the initial calibration and any data that follows it.

Average %RSD for all compounds in this Initial Calibration: 9.285

Data Reviewer/ID# ___ /2377

Date March 19,1999

Report Date : 19-Mar-1999 09:37

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-1999 12:37
End Cal Date : 18-MAR-1999 14:02
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50051.i/f990318a.b/W8260-B-25ML.m
Cal Date : 19-Mar-1999 09:34 thornton
Curve Type : Average

Calibration File Names:
Level 1: /chem/f50051.i/f990318a.b/cv990318a51.d
Level 2: /chem/f50051.i/f990318a.b/cw990318a51.d
Level 3: /chem/f50051.i/f990318a.b/cx990318a51.d
Level 4: /chem/f50051.i/f990318a.b/cy990318a51.d
Level 5: /chem/f50051.i/f990318a.b/ct990318a51.d

Compound	12 Level 1	25 Level 2	125 Level 3	250 Level 4	625 Level 5	___ RRF	% RSD	
8 Dichlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
9 Chloromethane	0.13197	0.13543	0.10368	0.09828	0.13461	0.12080	15.094	<-
10 Vinyl Chloride	0.17646	0.17372	0.15639	0.14991	0.18856	0.16901	9.280	
11 Bromomethane	0.23060	0.20937	0.18048	0.17804	0.21393	0.20248	11.182	
12 Chloroethane	0.14791	0.13498	0.12879	0.11594	0.13758	0.13304	8.860	
13 Trichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
14 Diethylether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
15 Acrolein	0.01123	0.00578	0.00428	0.00520	0.00492	0.00628	44.894	<-
16 1,1-Dichloroethene	0.22906	0.24507	0.22804	0.24258	0.24622	0.23819	3.740	
17 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
18 1,1,1-trichloro-2,2,2-trifluo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
19 Carbon disulfide	0.57059	0.68723	0.64666	0.66121	0.68018	0.64917	7.199	
20 1,1,2-trichloro-1,2,2-trifluo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
21 Acetone	0.00541	0.01115	0.00838	0.00842	0.00912	0.00849	24.245	<-
22 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
23 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
24 Methylene Chloride	0.49887	0.41163	0.36498	0.35198	0.36423	0.39834	15.223	<-
25 trans-1,2-Dichloroethene	0.25402	0.26785	0.24050	0.25777	0.25520	0.25507	3.842	
26 Acrylonitrile	0.01001	0.00884	0.00797	0.00856	0.00850	0.00878	8.656	
27 Methyl-tert-butyl ether	0.19866	0.20690	0.18786	0.19911	0.18066	0.19464	5.313	
28 tert-butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
29 n-hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
30 1,1-Dichloroethane	0.44371	0.46369	0.43449	0.42614	0.43245	0.44010	3.321	
31 Vinyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
32 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
33 cis-1,2-Dichloroethene	0.24654	0.24469	0.22962	0.24145	0.23070	0.23860	3.321	
34 2-butanone	0.00117	0.00169	0.00305	0.00347	0.00311	0.00250	40.135	<-

9.28
11

Report Date : 19-Mar-1999 09:37

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-1999 12:37
End Cal Date : 18-MAR-1999 14:02
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50051.i/f990318a.b/W8260-B-25ML.m
Cal Date : 19-Mar-1999 09:34 thornton
Curve Type : Average

Compound	12 Level 1	25 Level 2	125 Level 3	250 Level 4	625 Level 5	RRF	% RSD	
35 Propionitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
36 Bromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
37 Methyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
38 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
39 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
40 Chloroform	0.49299	0.50445	0.46837	0.46964	0.44289	0.47567	5.032	
41 1,1,1-Trichloroethane	0.58912	0.60772	0.57137	0.59839	0.59142	0.59160	2.270	
42 1-chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
43 Carbon Tetrachloride	0.59868	0.62776	0.58007	0.59585	0.59429	0.59933	2.910	
44 1,1-dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
45 Pentafluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
46 Benzene	0.66769	0.71934	0.67206	0.67809	0.67883	0.68320	3.032	
47 1,2-Dichloroethane	0.18864	0.18156	0.17694	0.17416	0.16779	0.17782	4.410	
48 Isobutyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
49 Crotonaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
50 Trichloroethene	0.32515	0.36873	0.37639	0.38780	0.37937	0.36749	6.703	
51 1,2-Dichloropropane	0.22645	0.21992	0.21373	0.21291	0.20394	0.21539	3.905	
52 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
53 1,4-dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
54 Methylmethacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
55 Bromodichloromethane	0.42855	0.37239	0.36427	0.35505	0.33916	0.37188	9.142	
56 2-chloroethyl vinyl ether	0.03444	0.03121	0.03244	0.03473	0.03589	0.03374	5.583	
57 cis-1,3-Dichloropropene	0.25048	0.23492	0.23547	0.25458	0.25630	0.24635	4.222	
58 4-Methyl-2-pentanone	0.10222	0.07724	0.06357	0.06721	0.06676	0.07540	21.014	<-
59 Toluene	0.74885	0.73737	0.72364	0.76493	0.73966	0.74289	2.056	
60 trans-1,3-Dichloropropene	0.21965	0.21931	0.21004	0.22987	0.23038	0.22185	3.823	
61 1,1,2-Trichloroethane	0.17392	0.16029	0.13760	0.13933	0.13414	0.14905	11.584	
62 Ethylmethacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
63 Tetrachloroethene	0.54003	0.61324	0.56419	0.56852	0.54866	0.56693	4.998	
64 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
65 2-hexanone	0.06529	0.05343	0.04060	0.04089	0.04114	0.04827	22.704	<-
66 Dibromochloromethane	0.34178	0.34420	0.32112	0.33011	0.31426	0.33029	3.909	
67 1,2-Dibromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
68 Chlorobenzene	0.88830	0.89761	0.81951	0.82561	0.78266	0.84274	5.792	

Report Date : 19-Mar-1999 09:37

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-1999 12:37
End Cal Date : 18-MAR-1999 14:02
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50051.i/f990318a.b/W8260-B-25ML.m
Cal Date : 19-Mar-1999 09:34 thornton
Curve Type : Average

Compound	12 Level 1	25 Level 2	125 Level 3	250 Level 4	625 Level 5	___ RRF	% RSD	
69 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
70 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
71 Ethylbenzene	0.48365	0.52710	0.49753	0.50715	0.46561	0.49621	4.693	
72 m,p-Xylene	0.62268	0.69793	0.63937	0.63307	0.60144	0.63890	5.635	
73 o-Xylene	0.58110	0.62406	0.55290	0.54589	0.52027	0.56484	7.003	
74 Styrene	0.73728	0.81028	0.75189	0.76418	0.70110	0.75295	5.291	
75 Bromoform	0.20521	0.17905	0.16722	0.17050	0.17273	0.17894	8.556	
76 Isopropyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
77 cis-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
78 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
79 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
80 1,1,2,2-Tetrachloroethane	0.40050	0.34412	0.28675	0.27784	0.23746	0.30933	20.566	<-
81 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
82 n-Propyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
83 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
84 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
85 1,3,5-Trimethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
86 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
87 tert-Butyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
88 1,2,4-Trimethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
89 sec-Butyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
90 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
91 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
92 p-Isopropyl Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
93 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
94 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
95 n-Butyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
96 1,2-diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
97 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
98 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
99 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
100 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
101 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
M 102 1,2-Dichloroethene (total)	0.25028	0.25627	0.23506	0.24961	0.24295	0.24683	3.281	

Report Date : 19-Mar-1999 09:37

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-1999 12:37
End Cal Date : 18-MAR-1999 14:02
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50051.i/f990318a.b/W8260-B-25ML.m
Cal Date : 19-Mar-1999 09:34 thornton
Curve Type : Average

Compound	12 Level 1	25 Level 2	125 Level 3	250 Level 4	625 Level 5	___ RRF	% RSD
M 103 Xylene (total)	0.58110	0.62406	0.55290	0.54589	0.52027	0.56484	7.003
$ 4 Dibromofluoromethane	0.36068	0.36080	0.35459	0.35472	0.33594	0.35335	2.885
$ 5 1,2-Dichloroethane-d4	0.22073	0.17933	0.16676	0.16605	0.15905	0.17838	13.889
$ 6 Toluene-d8	1.04281	1.18799	1.12143	1.14833	1.13482	1.12708	4.727
$ 7 Bromofluorobenzene	1.04947	0.98900	0.93609	0.94548	0.87084	0.95818	6.915

CHRYSLER CORPORATION Building 40B Free product Delineation

Chain-of-Custody

04023 A

15

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: 1600 Webster St, Dayton OH
Site Code: SC001
RFA Number: YGQP9900215
Chrysler PM: Gary Stanczuk

Consultant: LBG
Address: 1210 West County Road E, St Paul MN 55112
Consultant PM: Ken Vogel
Phone: 651 490 1405 Fax: 651 490 1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
(10 days)
28 days

Data Package Deliverables: (circle)
(Chrysler Level 1)
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative: 40z Glass No Preservative TCL VOC's 8260

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify) Lab Pure Water Carboys

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	40z Glass No Preservative TCL VOC's 8260	Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
MW-21S 2-4'	3/10/99	15:00	G	S	1	X					
MW-21S 8-10'	↓	15:45	↓	↓	1	X					
MW-21S 18-20'	↓	17:00	↓	↓	1	X					
MW-22S 5-7'	3/4/99	17:15	↓	↓	1	X					
MW-22S 10-12'	↓	17:30	↓	↓	3	X					MS/MSD
MW-22S ~~18-20'~~ 19-21'	↓	18:~~05~~	↓	↓	1	X					
EMW031199	↓	17:55	↓	O	2	X					
Trip Blank T031199	3/11/99			O	2	X					3/5/99 Carboy 3

Add TCLP Ext & hold for VOCs per Dave Strand @ LBG per sample IDs MW-21S 18-20 & MW-22S 19-21 Dz 3-12-99

Sampler(s)
David Strand
Mike Plante

Cooler ID # 497

Is RFA sampling complete? Yes (No)

Bottles Relinquished under Airbill No. 4287 4960 0581

Samples Relinquished under Airbill No. 810525280920

Temperature (corrected) 2.0 C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
David Strand	3/11/99					Yes No
						Yes No
			Received for Laboratory by:	3/12/99	0855	(Yes) No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

Opened cooler at 9:11 AM CT 3/12

SDG 215A per Dave Strand @ LBG DZ 3-12-99

CHRYSLER CORPORATION

Free Product Building 40B
Silicate Line Soil Confirmation

Chain-of-Custody

04025 A

16

ompuChem	Project Name: Dayton Thermal Products	Consultant: Leggette, Brashears + Graham	
1 Madison Avenue	Site Location: Dayton OH	Address: 1210 West County Rd E	
ry, NC 27513	Site Code: SC001	St. Paul MN 55112	
one Number: 1-800-833-5097	RFA Number: YGQP9900215	Consultant PM: Ken Vogel	
x Number: (919) 379-4050	Chrysler PM: Gary Stanczuk	Phone: (651) 490-1405	Fax: (651) 490-1006

urn-around Time Request:
1 calendar hrs.
3 calendar hrs.
) days
3 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify) Lab Pure Water Carboy 5

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	4 oz glass, none TCL VOC's 8260	4 oz glass, none TCLP VOC's Ext + hold							Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
DP-7 0.5-4.5	3/14/99	14:40	G	S	1	X	X	Rec'd 2-4oz jars DE 3-16-99										PID = 32 ppm
DP-8 0.5-4.5		15:05	G		1	X												" 18 "
DP-9 0.5-4.5		15:25			1	X												NA
DP-10 0.5-4.5		15:35			1	X		Rec'd 3-4oz jar DE 3-16-99 Use for MS/MSD DE 3-16-99										PID = 25 MS/MSD
DP-11 0.5-4.5		15:45			1	X												" 2 "
DP-12 0.5-4.5		16:05			1	X												" 2 "
EDP031499		16:00		O	2	X												
TO31499	3/14/99			O				Rec'd 2-40ml vials DE 3-16-99										Trip Blank Carboy 5

ampler(s)
David Strand
Mike Plante

ooler ID # ~~NA~~ 206

RFA sampling complete? Yes No

Bottles Reliquished under Airbill No.

Relinquished by:	Date:	Time:
[signature]	3/15/99	FedEx

Samples Relinquished under Airbill No. 809983901940

Received by:	Date:	Time:	Custody Seal Intact?
			Yes No
			Yes No
Received for Laboratory by: Glenn Dorne	3/16/99	7:25 am	Yes No

Temperature (corrected) 2 C

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

SDG 215B

Revision No. 1
Rev. September 23, 1997

CompuChem
WATER BATCH SHEET

RFA 215
sublist: TCL
spike - FULL

FULL SPIKES

Date Batched 3/16/99
Case 34180.21502
Instrument Code

LINKER W82603
TAT 10 SOW

	CCN	CLIENT ID	QC SAMPLE TYPE	QC SAMPLE ORIGINAL	pH	TIME	DATE RUN	INST. #	OPERATOR	H/T	VOLUME/ INSTRUCTIONS	SCREEN BOTTLE #	ANALYSIS BOTTLE #
1)	931510	EDP031499			1	1933	3-18-99	51	2331	7/25	RN	of	of
2)	931511	T031499 ~~T031499~~ km3/16/99			1	2006	↓	↓	↓	↓	↓	of	of
3)	931579	VLCS82	LCS		–	1846.	3-18-99	51	2331			of	of
4)												of	of
5)												of	of
6)												of	of
7)												of	of
8)												of	of
9)												of	of
10)												of	of
11)												of	of
12)												of	of
13)												of	of
14)												of	of
15)												of	of
16)												of	of
17)												of	of
18)												of	of
19)												of	of
20)												of	of
21)												of	of
22)												of	of
23)												of	of

56

Relinquished By Ref # 2 Date 3-18-99 Received By [illegible] Date 3-18-99
Relinquished By [illegible] Date 3-18-99 Received By Ref. # 2 Date 3-18-99
Relinquished By Date Received By Date

Log Page Updated

CompuChem

WATER BATCH SHEET

RFA 215
sublist: TCL
spike: FULL

Full SPIKES

Date Batched 3/15/99
Case 34180.21502
Instrument Code

LINKER W8260B

TAT 10 SOW

	CCN	CLIENT ID	QC SAMPLE TYPE	QC SAMPLE ORIGINAL	pH	TIME	DATE RUN	INST. #	OPERATOR	H/T	VOLUME/ INSTRUCTIONS	SCREEN BOTTLE #	ANALYSIS BOTTLE #
1)	931308	EMW031199			1	1752	3-18-99	57	2331	3/25	RN	of	of
2)	931311	T031199			1	1824	↓	↓	↓	↓	↓	of	of
3)	931462	VLC579	LCS		–	1702	03.18.99	57	2347			of	of
4)	931308R'					1905	↓	↓	2331		RN	of	of
5)												of	of
6)												of	of
7)												of	of
8)												of	of
9)												of	of
10)												of	of
11)												of	of
12)												of	of
13)												of	of
14)												of	of
15)												of	of
16)												of	of
17)												of	of
18)												of	of
19)												of	of
20)												of	of
21)												of	of
22)												of	of
23)												of	of

356

Relinquished By Ref 2 Date 03.18.99 Received By KP Date ~~03.17.99~~ 03.18.99
Relinquished By KP Date 03.18.99 Received By [signature] Date 3-18-99
Relinquished By [signature] Date 3-18-99 Received By Ref #2 Date 3-18-99

Log Page Updated

COMPCHEM

INTERNAL CHAIN-OF-CUSTODY

Laboratory: VOA

Requested By: KM

Water ✓ Soil ____ P.E. ____

Date: 3/15/99

Shift: (1) 2 Sat

circle one

EPA ____ Commercial ✓

CCN	RECEIPT DATE	PRES.	PARAMETER	RECEIVING USE ONLY BOTTLE NUMBER
1 931308	3/12			1, 2 of 2
2 ↓ 311	↓			1, 2 of 2
3				of
4				of
5				of
6				of
7				of
8				of
9				of
10				of
11				of
12				of
13				of
14				of
15				of
16				of
17				of
18				of
19				of
20				of

Relinquished By: [illegible] Date: 3/15/99

Received By: ____ Date: ____

Relinquished By: ____ Date: ____

Received By: ____ Date: ____

Comments:

CompuChem Receiving Log

Client : LBG / CHRYSLER
Order # 34180
Project : RFA 215
Quote # 99-7238
Account # 500944

Received on : 3/12/99 # of COC's 1
Delivered by : FED-EX
Freight # 810525280920
Subcontract Y / N
TAT : Verbal N/A Hardcopy 10 day

PPS / RFA # 215 Page 1 of 1
Lab Instructions : TCL - VOCs
*MS/MSD

	SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	pH
1	21501	1	MW-21S2-4	931300	1-4oz. jar	VOC 8260	~~1356~~ 1357	3, 8	3/10/99	SO	NA
2		2	MW-21S8-10	931303							
3		3	MW-21S18-20	931304							
4		4	MW-22S5-7	931305		3/12/99			3/11/99		
5		5	* MW-22S10-12	931306	3-4oz. jars.						
6		6	MW-22S19-21	931307	1-4oz. jar						
7	21502	7	EMW031199	931308	2-40ml V		1356	1		WA	
8		8	T031199	931311	2-40ml V						
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

J Ellmore 3-12-99

Logged In By : [signature]
Order Entered By : Melissa [signature]
Cyanide samples checked for sulfide and chlorine Y / NA
Received in good condition Y / N
Holding Blank(s) : Counter / Page ____ / ____ CCN's ____ / ____
Temperature(s) 2.0 °C

CompuChem Receiving Log

Client: Chrysler / LBG
Order #: 34180
Project: RFA 215
Quote #: 99-7238
Account #: 500744

Received on: 3-16-99 # of COC's: 2
Delivered by: Federal Express
Freight #: 809983901940
Subcontract Y / (N)
TAT: Verbal N/A Hardcopy 10 day

PPS / (RFA #) 215 Page 1 of 2
Lab Instructions: TCL - VOCs / TCLP Ext* hold VOCs
* MS/MSD

	SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	pH
1	21501	11	MW-23S-20-22	931492	1-4oz	VOC	1357, 286	3, 8	3/12/99	SO	NA
2		12	TB-21-3-5	931493					3/13/99		
3		13	TB-21-9-11	931494							
4		14	TB-21-15-17	931495							
5		15	DP-1-.5-4.5	496					3/14/99		
6		16	DP-2-.5-4.5	497							
7		17	DP-3-.5-4.5	498							
8		18	DP-4-.5-4.5	499							
9		19	DP-5-1-5	500							
10		20	DP-6-1-6	501							
11		21	DP-7-.5-4.5	502							
12		22	DP-8-.5-4.5	503							
13		23	DP-9-.5-4.5	507							
14		24	DP-10-.5-4.5*	505	3-4oz jars*						
15	21502	25	DP-11-.5-4.5	504	1-4oz jar						
16		26	DP-12-.5-4.5	509	1-4oz jar						
17	21502	27	EDP031499	510	2-40ml		1356	1		NA	
18		28	TB031499	511							
19	21516	29	DP-5-1-5	512	1-4oz	TCLP Ext & Hold VOC	456, 1141	5, 6		SO	
20		30	DP-6-1-6	513							

Logged In By: Diane Ellmore & Glenn Hone
Order Entered By: Diane Ellmore
Cyanide samples checked for sulfide and chlorine Y / (NA)
Received in good condition (Y) / N
Holding Blank(s): Counter / Page ____ / ____ CCN's ____ / ____
Temperature(s) 2 °C

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EDP031499

Project:

Date Sampled: 03/14/99

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER

Lab Sample ID: 931510

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: CN031510B51.D

Level: (low/med) LOW

Date Received: 03/16/99

% Moisture: not dec. _____

Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	0.5		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	0.5	1	B
75-35-4	1,1-Dichloroethene	0.5		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.5		U
107-06-2	1,2-Dichloroethane	0.5		U
71-55-6	1,1,1-Trichloroethane	0.5		U
56-23-5	Carbon Tetrachloride	0.5		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.5		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.5		U
71-43-2	Benzene	0.5		U
10061-02-6	trans-1,3-Dichloropropene	0.5		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.5		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.5		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.5		U
74-87-3	Chloromethane	0.5		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	2		U
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	2		U
156-60-5	trans-1,2-Dichloroethene	0.5		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EDP031499

Project:

Date Sampled: 03/14/99

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER

Lab Sample ID: 931510

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: CN031510B51.D

Level: (low/med) LOW

Date Received: 03/16/99

% Moisture: not dec. _____

Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EMW031199

Project:

Date Sampled: 03/11/99

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER

Lab Sample ID: 931308

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: CR031308A57.D

Level: (low/med) LOW

Date Received: 03/12/99

% Moisture: not dec. _____

Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	0.5		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	0.5	0.4	JB
75-35-4	1,1-Dichloroethene	0.5		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.5		U
107-06-2	1,2-Dichloroethane	0.5		U
71-55-6	1,1,1-Trichloroethane	0.5		U
56-23-5	Carbon Tetrachloride	0.5		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.5		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.5		U
71-43-2	Benzene	0.5		U
10061-02-6	trans-1,3-Dichloropropene	0.5		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.5		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.5		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.5		U
74-87-3	Chloromethane	0.5		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	2		U
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	2		U
156-60-5	trans-1,2-Dichloroethene	0.5		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EMW031199

Project:

Date Sampled: 03/11/99

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER

Lab Sample ID: 931308

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: CR031308A57.D

Level: (low/med) LOW

Date Received: 03/12/99

% Moisture: not dec. _____

Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

T031199

Project:

Date Sampled: 03/11/99

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER

Lab Sample ID: 931311

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: CN031311A57.D

Level: (low/med) LOW

Date Received: 03/12/99

% Moisture: not dec. _____

Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	0.5		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	0.5	0.6	B
75-35-4	1,1-Dichloroethene	0.5		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.5		U
107-06-2	1,2-Dichloroethane	0.5		U
71-55-6	1,1,1-Trichloroethane	0.5		U
56-23-5	Carbon Tetrachloride	0.5		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.5		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.5		U
71-43-2	Benzene	0.5		U
10061-02-6	trans-1,3-Dichloropropene	0.5		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.5		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.5		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.5		U
74-87-3	Chloromethane	0.5		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	2		U
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	2		U
156-60-5	trans-1,2-Dichloroethene	0.5		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

T031199

Project: Date Sampled: 03/11/99

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER Lab Sample ID: 931311

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN031311A57.D

Level: (low/med) LOW Date Received: 03/12/99

% Moisture: not dec. _____ Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

T031499

Project:

Date Sampled: 03/14/99

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER

Lab Sample ID: 931511

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: CN031511B51.D

Level: (low/med) LOW

Date Received: 03/16/99

% Moisture: not dec. _____

Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	0.5		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	0.5	0.6	B
75-35-4	1,1-Dichloroethene	0.5		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.5		U
107-06-2	1,2-Dichloroethane	0.5		U
71-55-6	1,1,1-Trichloroethane	0.5		U
56-23-5	Carbon Tetrachloride	0.5		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.5		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.5		U
71-43-2	Benzene	0.5		U
10061-02-6	trans-1,3-Dichloropropene	0.5		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.5		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.5		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.5		U
74-87-3	Chloromethane	0.5		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	2		U
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	2		U
156-60-5	trans-1,2-Dichloroethene	0.5		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

T031499

Project:

Date Sampled: 03/14/99

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER

Lab Sample ID: 931511

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: CN031511B51.D

Level: (low/med) LOW

Date Received: 03/16/99

% Moisture: not dec. _____

Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKSA

Lab Name: COMPUCHEM Contract: 500944

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Lab File ID: CB990318B51.D Lab Sample ID: VBLKSA

Date Analyzed: 03/18/99 Time Analyzed: 1801

GC Column:SP624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50051

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS82	931579	CN031579B51.D	1846
02	EDP031499	931510	CN031510B51.D	1933
03	T031499	931511	CN031511B51.D	2006
04				
05				
06				
07				
08				
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKSA

Project: Date Sampled: _____

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER Lab Sample ID: VBLKSA

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB990318B51.D

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

% Moisture: not dec. _____ Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	0.5		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	0.5	0.2	J
75-35-4	1,1-Dichloroethene	0.5		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.5		U
107-06-2	1,2-Dichloroethane	0.5		U
71-55-6	1,1,1-Trichloroethane	0.5		U
56-23-5	Carbon Tetrachloride	0.5		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.5		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.5		U
71-43-2	Benzene	0.5		U
10061-02-6	trans-1,3-Dichloropropene	0.5		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.5		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.5		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.5		U
74-87-3	Chloromethane	0.5		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	2		U
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	2		U
156-60-5	trans-1,2-Dichloroethene	0.5		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKSA

Project: Date Sampled: _____

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER Lab Sample ID: VBLKSA

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB990318B51.D

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

% Moisture: not dec. _____ Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKKU

Lab Name: COMPUCHEM Contract: 500944

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Lab File ID: CC990318A57.D Lab Sample ID: VBLKKU

Date Analyzed: 03/18/99 Time Analyzed: 1523

GC Column:SP624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50057

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS79	931462	CN031462A57.D	1703
02	T031199	931311	CN031311A57.D	1824
03	EMW031199	931308	CR031308A57.D	1905
04				
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKKU

Project: Date Sampled: _____

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER Lab Sample ID: VBLKKU

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CC990318A57.D

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

% Moisture: not dec. _____ Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	0.5		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	0.5	0.1	J
75-35-4	1,1-Dichloroethene	0.5		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.5		U
107-06-2	1,2-Dichloroethane	0.5		U
71-55-6	1,1,1-Trichloroethane	0.5		U
56-23-5	Carbon Tetrachloride	0.5		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.5		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.5		U
71-43-2	Benzene	0.5		U
10061-02-6	trans-1,3-Dichloropropene	0.5		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.5		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.5		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.5		U
74-87-3	Chloromethane	0.5		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	2		U
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	2		U
156-60-5	trans-1,2-Dichloroethene	0.5		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKKU

Project: Date Sampled: _____

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER Lab Sample ID: VBLKKU

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CC990318A57.D

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

% Moisture: not dec. _____ Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 500944

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

	SAMPLE NO.	SMC1 (DBF) #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB)	TOT OUT
01	EDP031499	117	97	128	125	0
02	EMW031199	91	89	113	126	0
03	T031199	90	92	114	122	0
04	T031499	120	109	117	118	0
05	VBLKKU	87	88	109	122	0
06	VBLKSA	116	99	112	120	0
07	VLCS79	93	98	113	106	0
08	VLCS82	118	114	116	112	0
09						
10						
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			QC LIMITS
SMC1	(DBF)	= Dibromofluoromethane	(85-126)
SMC2	(DCE)	= 1,2-Dichloroethane-d4	(81-141)
SMC3	(TOL)	= Toluene-d8	(76-135)
OTHER	(BFB)	= Bromofluorobenzene	(78-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS82

Lab Name: COMPUCHEM Contract: 500944

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Lab Sample ID: 931579 LCS Lot No.: ME40

Lab File ID: CN031579B51.D Date Analyzed: 03/18/99

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
1,1,1-Trichloroethane	5.00	5.39	108	50-150
1,1,2-Trichloroethane	5.00	4.74	95	50-150
1,2-Dichloroethane	5.00	5.30	106	50-150
Benzene	5.00	5.38	108	50-150
Bromodichloromethane	5.00	5.12	102	50-150
Bromoform	5.00	4.43	88	50-150
Bromomethane	5.00	4.90	98	50-150
Carbon Tetrachloride	5.00	5.40	108	50-150
Carbon disulfide	5.00	5.58	112	50-150
Chloroethane	5.00	5.13	103	50-150
Dibromochloromethane	5.00	4.74	95	50-150
Methylene Chloride	5.00	5.41	108	50-150
Styrene	5.00	4.99	100	50-150
Tetrachloroethene	5.00	4.98	100	50-150
Trichloroethene	5.00	5.48	110	50-150
cis-1,2-Dichloroethene	5.00	5.39	108	50-150
cis-1,3-Dichloropropene	5.00	5.32	106	50-150
trans-1,2-Dichloroethene	5.00	5.19	104	50-150
trans-1,3-Dichloropropene	5.00	5.00	100	50-150
Xylene (total)	15.00	16.40	109	50-150
2-butanone	25.00	33.62	134	50-150
2-hexanone	25.00	20.86	83	50-150
4-Methyl-2-pentanone	25.00	21.39	86	50-150
Acetone	25.00	29.57	118	50-150
1,1,2,2-Tetrachloroethane	5.00	4.50	90	50-150
1,1-Dichloroethane	5.00	5.21	104	50-150
1,1-Dichloroethene	5.00	5.35	107	50-150
1,2-Dichloropropane	5.00	5.17	104	50-150
Chlorobenzene	5.00	4.92	98	50-150
Chloroform	5.00	5.33	106	50-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS82

Lab Name: COMPUCHEM Contract: 500944

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Lab Sample ID: 931579 LCS Lot No.: ME40

Lab File ID: CN031579B51.D Date Analyzed: 03/18/99

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
Chloromethane	5.00	5.68	114	50-150
Ethylbenzene	5.00	5.13	103	50-150
Toluene	5.00	5.21	104	50-150
Vinyl Chloride	5.00	5.20	104	50-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 34 total.

COMMENTS:

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS79

Lab Name: COMPUCHEM Contract: 500944

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Lab Sample ID: 931462 LCS Lot No.: ME40

Lab File ID: CN031462A57.D Date Analyzed: 03/18/99

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
1,1,1-Trichloroethane	5.00	4.81	96	50-150
1,1,2-Trichloroethane	5.00	5.77	115	50-150
1,2-Dichloroethane	5.00	4.62	92	50-150
Benzene	5.00	5.49	110	50-150
Bromodichloromethane	5.00	6.51	130	50-150
Bromoform	5.00	5.64	113	50-150
Bromomethane	5.00	5.20	104	50-150
Carbon Tetrachloride	5.00	4.88	98	50-150
Carbon disulfide	5.00	4.83	97	50-150
Chloroethane	5.00	5.16	103	50-150
Dibromochloromethane	5.00	5.81	116	50-150
Methylene Chloride	5.00	4.83	96	50-150
Styrene	5.00	6.11	122	50-150
Tetrachloroethene	5.00	5.42	108	50-150
Trichloroethene	5.00	5.56	111	50-150
cis-1,2-Dichloroethene	5.00	5.68	114	50-150
cis-1,3-Dichloropropene	5.00	6.54	131	50-150
trans-1,2-Dichloroethene	5.00	5.58	112	50-150
trans-1,3-Dichloropropene	5.00	6.18	124	50-150
Xylene (total)	15.00	19.61	131	50-150
2-butanone	25.00	28.94	116	50-150
2-hexanone	25.00	25.26	101	50-150
4-Methyl-2-pentanone	25.00	24.38	98	50-150
Acetone	25.00	25.39	102	50-150
1,1,2,2-Tetrachloroethane	5.00	4.89	98	50-150
1,1-Dichloroethane	5.00	5.77	115	50-150
1,1-Dichloroethene	5.00	5.61	112	50-150
1,2-Dichloropropane	5.00	5.18	104	50-150
Chlorobenzene	5.00	5.96	119	50-150
Chloroform	5.00	5.23	105	50-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS79

Lab Name: COMPUCHEM Contract: 500944

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Lab Sample ID: 931462 LCS Lot No.: ME40

Lab File ID: CN031462A57.D Date Analyzed: 03/18/99

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
Chloromethane	5.00	3.92	78	50-150
Ethylbenzene	5.00	5.73	115	50-150
Toluene	5.00	5.77	115	50-150
Vinyl Chloride	5.00	4.66	93	50-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 34 total.

COMMENTS:

KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (614) 373-4071

APR 27 1998

CompuChem
501 Madison Avenue
Cary, NC 27513

Attention: Cathy Dover

PO Number:
Account Number: COMPUCHEM-529

Login #: L9804188
Report Date: 04/20/98
Work ID: DAYTON THERMAL, BUILDING 40B
Date Received: 04/08/98

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L9804188-01	FB040698	L9804188-02	TB040698
L9804188-03	TB-13 (5-7')	L9804188-04	TB-14 (3-5')
L9804188-05	TB-15 (3-5)	L9804188-06	TB-16 (5-7')
L9804188-07	TB-17 (5-7')	L9804188-08	TB-17 (5-7') FIELD DUP
L9804188-09	TB-18 (3-5')	L9804188-10	TB-19 (1-3')
L9804188-11	TB-19 (3-5')	L9804188-12	TB-19 (3-5')/MS
L9804188-13	TB-19 (3-5')/MSD	L9804188-14	FB040798

SDG 208-C

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

Certified By
David L. Bumgarner

EPA Region 5 Records Ctr.
350038

KEMRON
ENVIRONMENTAL SERVICES

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9804188-01
Client Sample ID: FB040698
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Water

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 18:44

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/06/98

Instrument: HPMS2
Analyst: SLT
Lab File ID: 2CU23700

Sample Weight: N/A
Extract Volume: N/A

% Solid: N/A

Method: 8260A
Run ID: R44930

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/L		ND	100	1
71-43-2	Benzene	ug/L		ND	5.0	1
108-86-1	Bromobenzene	ug/L		ND	5.0	1
74-97-5	Bromochloromethane	ug/L		ND	5.0	1
75-27-4	Bromodichloromethane	ug/L		ND	5.0	1
75-25-2	Bromoform	ug/L		ND	5.0	1
74-83-9	Bromomethane	ug/L		ND	10	1
78-93-3	2-Butanone	ug/L		ND	100	1
104-51-8	n-Butylbenzene	ug/L		ND	5.0	1
135-98-8	sec-Butylbenzene	ug/L		ND	5.0	1
98-06-6	tert-Butylbenzene	ug/L		ND	5.0	1
75-15-0	Carbon disulfide	ug/L		ND	5.0	1
56-23-5	Carbon tetrachloride	ug/L		ND	5.0	1
108-90-7	Chlorobenzene	ug/L		ND	100	1
124-48-1	Chlorodibromomethane	ug/L		ND	5.0	1
75-00-3	Chloroethane	ug/L		ND	10	1
110-75-8	2-Chloroethyl vinyl ether	ug/L		ND	10	1
67-66-3	Chloroform	ug/L		ND	5.0	1
74-87-3	Chloromethane	ug/L		ND	10	1
95-49-8	2-Chlorotoluene	ug/L		ND	5.0	1
106-43-4	4-Chlorotoluene	ug/L		ND	5.0	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/L		ND	5.0	1
106-93-4	1,2-Dibromoethane	ug/L		ND	5.0	1
74-95-3	Dibromomethane	ug/L		ND	5.0	1
95-50-1	1,2-Dichlorobenzene	ug/L		ND	600	1
541-73-1	1,3-Dichlorobenzene	ug/L		ND	5.0	1
106-46-7	1,4-Dichlorobenzene	ug/L		ND	75	1
75-71-8	Dichlorodifluoromethane	ug/L		ND	10	1
75-34-3	1,1-Dichloroethane	ug/L		ND	5.0	1
107-06-2	1,2-Dichloroethane	ug/L		ND	5.0	1
75-35-4	1,1-Dichloroethene	ug/L		ND	7.0	1
*156-59-2	cis-1,2-Dichloroethene	ug/L		ND	70	1
*156-60-5	trans-1,2-Dichloroethene	ug/L		ND	100	1
78-87-5	1,2-Dichloropropane	ug/L		ND	5.0	1
142-28-9	1,3-Dichloropropane	ug/L		ND	5.0	1
594-20-7	2,2-Dichloropropane	ug/L		ND	5.0	1
10061-01-5	cis-1,3-Dichloropropene	ug/L		ND	5.0	1
10061-02-6	trans-1,3-Dichloropropene	ug/L		ND	5.0	1
563-58-6	1,1-Dichloropropene	ug/L		ND	5.0	1

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9804188-01
Client Sample ID: FB040698
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Water

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 18:44

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/06/98

Instrument: HPMS2
Analyst: SLT
Lab File ID: 2CU23700

Sample Weight: N/A
Extract Volume: N/A

% Solid: N/A

Method: 8260A
Run ID: R44930

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/L		ND	700	1
591-78-6	2-Hexanone	ug/L		ND	10	1
87-68-3	Hexachlorobutadiene	ug/L		ND	5.0	1
98-82-8	Isopropylbenzene	ug/L		ND	5.0	1
99-87-6	p-Isopropyltoluene	ug/L		ND	5.0	1
108-10-1	4-Methyl-2-pentanone	ug/L		ND	10	1
75-09-2	Dichloromethane	ug/L		ND	5.0	1
91-20-3	Naphthalene	ug/L		ND	10	1
103-65-1	n-Propylbenzene	ug/L		ND	5.0	1
100-42-5	Styrene	ug/L		ND	100	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/L		ND	5.0	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/L		ND	5.0	1
127-18-4	Tetrachloroethene	ug/L		ND	5.0	1
108-88-3	Toluene	ug/L		ND	1000	1
87-61-6	1,2,3-Trichlorobenzene	ug/L		ND	5.0	1
120-82-1	1,2,4-Trichlorobenzene	ug/L		ND	70	1
71-55-6	1,1,1-Trichloroethane	ug/L		ND	200	1
79-00-5	1,1,2-Trichloroethane	ug/L		ND	5.0	1
79-01-6	Trichloroethene	ug/L		ND	5.0	1
75-69-4	Trichlorofluoromethane	ug/L		ND	10	1
96-18-4	1,2,3-Trichloropropane	ug/L		ND	5.0	1
95-63-6	1,2,4-Trimethylbenzene	ug/L		ND	5.0	1
108-67-8	1,3,5-Trimethylbenzene	ug/L		ND	5.0	1
108-05-4	Vinyl acetate	ug/L		ND	10	1
75-01-4	Vinyl chloride	ug/L		ND	2.0	1
1330-20-7	Xylenes, Total	ug/L		ND	10000	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	102	(86 - 118%)
1,2-Dichloroethane-d4	107	(80 - 120%)
Toluene-d8	100	(88 - 110%)
4-Bromofluorobenzene	101	(86 - 115%)

Login #L9804188
April 20, 1998 11:04 am

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9804188-02
Client Sample ID: TB040698
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Water

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 19:21

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/06/98

Instrument: HPMS2
Analyst: SLT
Lab File ID: 2CU23701

Sample Weight: N/A
Extract Volume: N/A

% Solid: N/A

Method: 8260A
Run ID: R44930

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/L		ND	100	1
71-43-2	Benzene	ug/L		ND	5.0	1
108-86-1	Bromobenzene	ug/L		ND	5.0	1
74-97-5	Bromochloromethane	ug/L		ND	5.0	1
75-27-4	Bromodichloromethane	ug/L		ND	5.0	1
75-25-2	Bromoform	ug/L		ND	5.0	1
74-83-9	Bromomethane	ug/L		ND	10	1
78-93-3	2-Butanone	ug/L		ND	100	1
104-51-8	n-Butylbenzene	ug/L		ND	5.0	1
135-98-8	sec-Butylbenzene	ug/L		ND	5.0	1
98-06-6	tert-Butylbenzene	ug/L		ND	5.0	1
75-15-0	Carbon disulfide	ug/L		ND	5.0	1
56-23-5	Carbon tetrachloride	ug/L		ND	5.0	1
108-90-7	Chlorobenzene	ug/L		ND	100	1
124-48-1	Chlorodibromomethane	ug/L		ND	5.0	1
75-00-3	Chloroethane	ug/L		ND	10	1
110-75-8	2-Chloroethyl vinyl ether	ug/L		ND	10	1
67-66-3	Chloroform	ug/L		ND	5.0	1
74-87-3	Chloromethane	ug/L		ND	10	1
95-49-8	2-Chlorotoluene	ug/L		ND	5.0	1
106-43-4	4-Chlorotoluene	ug/L		ND	5.0	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/L		ND	5.0	1
106-93-4	1,2-Dibromoethane	ug/L		ND	5.0	1
74-95-3	Dibromomethane	ug/L		ND	5.0	1
95-50-1	1,2-Dichlorobenzene	ug/L		ND	600	1
541-73-1	1,3-Dichlorobenzene	ug/L		ND	5.0	1
106-46-7	1,4-Dichlorobenzene	ug/L		ND	75	1
75-71-8	Dichlorodifluoromethane	ug/L		ND	10	1
75-34-3	1,1-Dichloroethane	ug/L		ND	5.0	1
107-06-2	1,2-Dichloroethane	ug/L		ND	5.0	1
75-35-4	1,1-Dichloroethene	ug/L		ND	7.0	1
156-59-2	cis-1,2-Dichloroethene	ug/L		ND	70	1
156-60-5	trans-1,2-Dichloroethene	ug/L		ND	100	1
78-87-5	1,2-Dichloropropane	ug/L		ND	5.0	1
142-28-9	1,3-Dichloropropane	ug/L		ND	5.0	1
594-20-7	2,2-Dichloropropane	ug/L		ND	5.0	1
10061-01-5	cis-1,3-Dichloropropene	ug/L		ND	5.0	1
10061-02-6	trans-1,3-Dichloropropene	ug/L		ND	5.0	1
563-58-6	1,1-Dichloropropene	ug/L		ND	5.0	1

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9804188-02
Client Sample ID: TB040698
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Water

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 19:21

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/06/98

Instrument: HPMS2
Analyst: SLT
Lab File ID: 2CU23701

Sample Weight: N/A
Extract Volume: N/A

% Solid: N/A

Method: 8260A
Run ID: R44930

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/L		ND	700	1
591-78-6	2-Hexanone	ug/L		ND	10	1
87-68-3	Hexachlorobutadiene	ug/L		ND	5.0	1
98-82-8	Isopropylbenzene	ug/L		ND	5.0	1
99-87-6	p-Isopropyltoluene	ug/L		ND	5.0	1
108-10-1	4-Methyl-2-pentanone	ug/L		ND	10	1
75-09-2	Dichloromethane	ug/L		ND	5.0	1
91-20-3	Naphthalene	ug/L		ND	10	1
103-65-1	n-Propylbenzene	ug/L		ND	5.0	1
100-42-5	Styrene	ug/L		ND	100	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/L		ND	5.0	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/L		ND	5.0	1
127-18-4	Tetrachloroethene	ug/L		ND	5.0	1
108-88-3	Toluene	ug/L		ND	1000	1
87-61-6	1,2,3-Trichlorobenzene	ug/L		ND	5.0	1
120-82-1	1,2,4-Trichlorobenzene	ug/L		ND	70	1
71-55-6	1,1,1-Trichloroethane	ug/L		ND	200	1
79-00-5	1,1,2-Trichloroethane	ug/L		ND	5.0	1
79-01-6	Trichloroethene	ug/L		ND	5.0	1
75-69-4	Trichlorofluoromethane	ug/L		ND	10	1
96-18-4	1,2,3-Trichloropropane	ug/L		ND	5.0	1
95-63-6	1,2,4-Trimethylbenzene	ug/L		ND	5.0	1
108-67-8	1,3,5-Trimethylbenzene	ug/L		ND	5.0	1
108-05-4	Vinyl acetate	ug/L		ND	10	1
75-01-4	Vinyl chloride	ug/L		ND	2.0	1
1330-20-7	Xylenes, Total	ug/L		ND	10000	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	102	(86 - 118%)
1,2-Dichloroethane-d4	110	(80 - 120%)
Toluene-d8	97.1	(88 - 110%)
4-Bromofluorobenzene	96.5	(86 - 115%)

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9804188-03
Client Sample ID: TB-13 (5-7')
Site/Work ID: DAYTON THERMAL,BUILDING 40B

Matrix: Soil
Collected: 04/06/98 1600

% Solid: 96
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	96		1.0	1	N/A	MZL	04/16/98	14:05	D2216-90

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-03
Client Sample ID: TB-13 (5-7')
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 00:37

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/06/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07086

Sample Weight: N/A
Extract Volume: N/A

% Solid: 96

Method: 8260A
Run ID: R45028

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone.....	ug/kg		ND	100	1
71-43-2	Benzene.....	ug/kg		ND	5.2	1
108-86-1	Bromobenzene.....	ug/kg		ND	5.2	1
74-97-5	Bromochloromethane.....	ug/kg		ND	5.2	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	5.2	1
75-25-2	Bromoform.....	ug/kg		ND	5.2	1
74-83-9	Bromomethane.....	ug/kg		ND	10	1
78-93-3	2-Butanone.....	ug/kg		ND	100	1
104-51-8	n-Butylbenzene.....	ug/kg		ND	5.2	1
135-98-8	sec-Butylbenzene.....	ug/kg		ND	5.2	1
98-06-6	tert-Butylbenzene.....	ug/kg		ND	5.2	1
75-15-0	Carbon disulfide.....	ug/kg		ND	5.2	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	5.2	1
108-90-7	Chlorobenzene.....	ug/kg		ND	5.2	1
124-48-1	Chlorodibromomethane.....	ug/kg		ND	5.2	1
75-00-3	Chloroethane.....	ug/kg		ND	10	1
110-75-8	2-Chloroethyl vinyl ether.....	ug/kg		ND	10	1
67-66-3	Chloroform.....	ug/kg		ND	5.2	1
74-87-3	Chloromethane.....	ug/kg		ND	10	1
95-49-8	2-Chlorotoluene.....	ug/kg		ND	5.2	1
106-43-4	4-Chlorotoluene.....	ug/kg		ND	5.2	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	5.2	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	5.2	1
74-95-3	Dibromomethane.....	ug/kg		ND	5.2	1

Login #L9804188
April 20, 1998 11:04 am

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-03
Client Sample ID: TB-13 (5-7')
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 00:37

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/06/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07086

Sample Weight: N/A
Extract Volume: N/A

% Solid: 96

Method: 8260A
Run ID: R45028

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.2	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.2	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.2	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	10	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.2	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.2	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.2	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	81	D	5.2	1
156-60-5	trans-1,2-Dichloroethene	ug/kg	5.2		5.2	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.2	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.2	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.2	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.2	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.2	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.2	1
100-41-4	Ethylbenzene	ug/kg		ND	5.2	1
591-78-6	2-Hexanone	ug/kg		ND	10	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.2	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.2	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.2	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	10	1
75-09-2	Methylene chloride	ug/kg		ND	5.2	1
91-20-3	Naphthalene	ug/kg		ND	10	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.2	1
100-42-5	Styrene	ug/kg		ND	5.2	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.2	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.2	1
127-18-4	Tetrachloroethene	ug/kg	92	D	5.2	1
108-88-3	Toluene	ug/kg		ND	5.2	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.2	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.2	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.2	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.2	1
79-01-6	Trichloroethene	ug/kg	51		5.2	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	10	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.2	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.2	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.2	1
108-05-4	Vinyl acetate	ug/kg		ND	10	1

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-03
Client Sample ID: TB-13 (5-7')
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 00:37

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/06/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07086

Sample Weight: N/A
Extract Volume: N/A

% Solid: 96

Method: 8260A
Run ID: R45028

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-01-4	Vinyl chloride	ug/kg		ND	10	1
95-47-6	o-Xylene	ug/kg		ND	5.2	1
108-38-3	m-Xylene	ug/kg		ND	5.2	1
106-42-3	p-Xylene	ug/kg		ND	5.2	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	97.7		(80 - 120%)
1,2-Dichloroethane-d4	89.1		(80 - 120%)
Toluene-d8	90.6		(81 - 117%)
4-Bromofluorobenzene	67.8	*,RE	(74 - 121%)

Lab Sample ID: L9804188-04
Client Sample ID: TB-14 (3-5')
Site/Work ID: DAYTON THERMAL,BUILDING 40B

Matrix: Soil
Collected: 04/06/98 1715

% Solid: 97
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids	% wt.	97		1.0	1	N/A	MZL	04/16/98	14:05	D2216-90

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-04
Client Sample ID: TB-14 (3-5')
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 18:23

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/06/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07104

Sample Weight: N/A
Extract Volume: N/A

% Solid: 97

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg		ND	100	1
71-43-2	Benzene	ug/kg		ND	5.2	1
108-86-1	Bromobenzene	ug/kg		ND	5.2	1
74-97-5	Bromochloromethane	ug/kg		ND	5.2	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.2	1
75-25-2	Bromoform	ug/kg		ND	5.2	1
74-83-9	Bromomethane	ug/kg		ND	10	1
78-93-3	2-Butanone	ug/kg		ND	100	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.2	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.2	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.2	1
75-15-0	Carbon disulfide	ug/kg		ND	5.2	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.2	1
108-90-7	Chlorobenzene	ug/kg		ND	5.2	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.2	1
75-00-3	Chloroethane	ug/kg		ND	10	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	10	1
67-66-3	Chloroform	ug/kg		ND	5.2	1
74-87-3	Chloromethane	ug/kg		ND	10	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.2	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.2	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.2	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.2	1
74-95-3	Dibromomethane	ug/kg		ND	5.2	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.2	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.2	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.2	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	10	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.2	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.2	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.2	1
156-59-2	cis-1,2-Dichloroethene	ug/kg		ND	5.2	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.2	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.2	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.2	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.2	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.2	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.2	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.2	1

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-04
Client Sample ID: TB-14 (3-5')
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 18:23

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/06/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07104

Sample Weight: N/A
Extract Volume: N/A

% Solid: 97

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg		ND	5.2	1
591-78-6	2-Hexanone	ug/kg		ND	10	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.2	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.2	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.2	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	10	1
75-09-2	Methylene chloride	ug/kg		ND	5.2	1
91-20-3	Naphthalene	ug/kg		ND	10	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.2	1
100-42-5	Styrene	ug/kg		ND	5.2	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.2	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.2	1
127-18-4	Tetrachloroethene	ug/kg	7.2		5.2	1
108-88-3	Toluene	ug/kg		ND	5.2	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.2	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.2	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.2	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.2	1
79-01-6	Trichloroethene	ug/kg		ND	5.2	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	10	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.2	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.2	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.2	1
108-05-4	Vinyl acetate	ug/kg		ND	10	1
75-01-4	Vinyl chloride	ug/kg		ND	10	1
95-47-6	o-Xylene	ug/kg		ND	5.2	1
108-38-3	m-Xylene	ug/kg		ND	5.2	1
106-42-3	p-Xylene	ug/kg		ND	5.2	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	118	(80 - 120%)
1,2-Dichloroethane-d4	118	(80 - 120%)
Toluene-d8	115	(81 - 117%)
4-Bromofluorobenzene	107	(74 - 121%)

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9804188-05
Client Sample ID: TB-15 (3-5)
Site/Work ID: DAYTON THERMAL,BUILDING 40B

Matrix: Soil
Collected: 04/07/98 8300

% Solid: 85
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	85		1.0	1	N/A	MZL	04/16/98	14:05	D2216-90

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-05
Client Sample ID: TB-15 (3-5)
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 18:56

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07105

Sample Weight: N/A
Extract Volume: N/A

% Solid: 85

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone.....	ug/kg		ND	120	1
71-43-2	Benzene.....	ug/kg		ND	5.9	1
108-86-1	Bromobenzene.....	ug/kg		ND	5.9	1
74-97-5	Bromochloromethane.....	ug/kg		ND	5.9	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	5.9	1
75-25-2	Bromoform.....	ug/kg		ND	5.9	1
74-83-9	Bromomethane.....	ug/kg		ND	12	1
78-93-3	2-Butanone.....	ug/kg		ND	120	1
104-51-8	n-Butylbenzene.....	ug/kg		ND	5.9	1
135-98-8	sec-Butylbenzene.....	ug/kg		ND	5.9	1
98-06-6	tert-Butylbenzene.....	ug/kg		ND	5.9	1
75-15-0	Carbon disulfide.....	ug/kg		ND	5.9	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	5.9	1
108-90-7	Chlorobenzene.....	ug/kg		ND	5.9	1
124-48-1	Chlorodibromomethane.....	ug/kg		ND	5.9	1
75-00-3	Chloroethane.....	ug/kg		ND	12	1
110-75-8	2-Chloroethyl vinyl ether.....	ug/kg		ND	12	1
67-66-3	Chloroform.....	ug/kg		ND	5.9	1
74-87-3	Chloromethane.....	ug/kg		ND	12	1
95-49-8	2-Chlorotoluene.....	ug/kg		ND	5.9	1
106-43-4	4-Chlorotoluene.....	ug/kg		ND	5.9	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	5.9	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	5.9	1
74-95-3	Dibromomethane.....	ug/kg		ND	5.9	1

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-05
Client Sample ID: TB-15 (3-5)
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 18:56

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07105

Sample Weight: N/A
Extract Volume: N/A

% Solid: 85

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.9	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.9	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.9	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	12	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.9	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.9	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.9	1
156-59-2	cis-1,2-Dichloroethene	ug/kg		ND	5.9	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.9	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.9	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.9	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.9	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.9	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.9	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.9	1
100-41-4	Ethylbenzene	ug/kg		ND	5.9	1
591-78-6	2-Hexanone	ug/kg		ND	12	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.9	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.9	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.9	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	12	1
75-09-2	Methylene chloride	ug/kg		ND	5.9	1
91-20-3	Naphthalene	ug/kg		ND	12	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.9	1
100-42-5	Styrene	ug/kg		ND	5.9	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.9	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.9	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.9	1
108-88-3	Toluene	ug/kg		ND	5.9	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.9	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.9	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.9	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.9	1
79-01-6	Trichloroethene	ug/kg		ND	5.9	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	12	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.9	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.9	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.9	1
108-05-4	Vinyl acetate	ug/kg		ND	12	1

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-05
Client Sample ID: TB-15 (3-5)
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 18:56

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07105

Sample Weight: N/A
Extract Volume: N/A

% Solid: 85

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-01-4	Vinyl chloride.....	ug/kg		ND	12	1
95-47-6	o-Xylene.....	ug/kg		ND	5.9	1
108-38-3	m-Xylene.....	ug/kg		ND	5.9	1
106-42-3	p-Xylene.....	ug/kg		ND	5.9	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane.....	106	(80 - 120%)
1,2-Dichloroethane-d4.....	104	(80 - 120%)
Toluene-d8.....	105	(81 - 117%)
4-Bromofluorobenzene.....	98.3	(74 - 121%)

Lab Sample ID: L9804188-06
Client Sample ID: TB-16 (5-7')
Site/Work ID: DAYTON THERMAL,BUILDING 40B

Matrix: Soil
Collected: 04/07/98 1300

% Solid: 96
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	96		1.0	1	N/A	MZL	04/16/98	14:05	D2216-90

Login #L9804188
April 20, 1998 11:04 am

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-06
Client Sample ID: TB-16 (5-7')
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 02:15

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07089

Sample Weight: N/A
Extract Volume: N/A

% Solid: 96

Method: 8260A
Run ID: R45028

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg		ND	100	1
71-43-2	Benzene	ug/kg		ND	5.2	1
108-86-1	Bromobenzene	ug/kg		ND	5.2	1
74-97-5	Bromochloromethane	ug/kg		ND	5.2	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.2	1
75-25-2	Bromoform	ug/kg		ND	5.2	1
74-83-9	Bromomethane	ug/kg		ND	10	1
78-93-3	2-Butanone	ug/kg		ND	100	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.2	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.2	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.2	1
75-15-0	Carbon disulfide	ug/kg		ND	5.2	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.2	1
108-90-7	Chlorobenzene	ug/kg		ND	5.2	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.2	1
75-00-3	Chloroethane	ug/kg		ND	10	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	10	1
67-66-3	Chloroform	ug/kg		ND	5.2	1
74-87-3	Chloromethane	ug/kg		ND	10	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.2	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.2	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.2	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.2	1
74-95-3	Dibromomethane	ug/kg		ND	5.2	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.2	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.2	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.2	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	10	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.2	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.2	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.2	1
156-59-2	cis-1,2-Dichloroethene	ug/kg		ND	5.2	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.2	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.2	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.2	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.2	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.2	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.2	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.2	1

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-06
Client Sample ID: TB-16 (5-7')
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 02:15

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07089

Sample Weight: N/A
Extract Volume: N/A

% Solid: 96

Method: 8260A
Run ID: R45028

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg		ND	5.2	1
591-78-6	2-Hexanone	ug/kg		ND	10	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.2	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.2	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.2	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	10	1
75-09-2	Methylene chloride	ug/kg		ND	5.2	1
91-20-3	Naphthalene	ug/kg		ND	10	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.2	1
100-42-5	Styrene	ug/kg		ND	5.2	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.2	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.2	1
127-18-4	Tetrachloroethene	ug/kg	27		5.2	1
108-88-3	Toluene	ug/kg		ND	5.2	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.2	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.2	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.2	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.2	1
79-01-6	Trichloroethene	ug/kg	64	D	5.2	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	10	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.2	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.2	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.2	1
108-05-4	Vinyl acetate	ug/kg		ND	10	1
75-01-4	Vinyl chloride	ug/kg		ND	10	1
95-47-6	o-Xylene	ug/kg		ND	5.2	1
108-38-3	m-Xylene	ug/kg		ND	5.2	1
106-42-3	p-Xylene	ug/kg		ND	5.2	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	92.8		(80 - 120%)
1,2-Dichloroethane-d4	88.3		(80 - 120%)
Toluene-d8	80.7	*	(81 - 117%)
4-Bromofluorobenzene	47.9	*,RE	(74 - 121%)

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9804188-07
Client Sample ID: TB-17 (5-7')
Site/Work ID: DAYTON THERMAL,BUILDING 40B

Matrix: Soil
Collected: 04/07/98 1030

% Solid: 89
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	89		1.0	1	N/A	MZL	04/16/98	14:05	D2216-90

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-07
Client Sample ID: TB-17 (5-7')
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 13:53

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07099

Sample Weight: N/A
Extract Volume: N/A

% Solid: 89

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone.....	ug/kg		ND	110	1
71-43-2	Benzene.....	ug/kg		ND	5.6	1
108-86-1	Bromobenzene.....	ug/kg		ND	5.6	1
74-97-5	Bromochloromethane.....	ug/kg		ND	5.6	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	5.6	1
75-25-2	Bromoform.....	ug/kg		ND	5.6	1
74-83-9	Bromomethane.....	ug/kg		ND	11	1
78-93-3	2-Butanone.....	ug/kg		ND	110	1
104-51-8	n-Butylbenzene.....	ug/kg		ND	5.6	1
135-98-8	sec-Butylbenzene.....	ug/kg		ND	5.6	1
98-06-6	tert-Butylbenzene.....	ug/kg		ND	5.6	1
75-15-0	Carbon disulfide.....	ug/kg		ND	5.6	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	5.6	1
108-90-7	Chlorobenzene.....	ug/kg		ND	5.6	1
124-48-1	Chlorodibromomethane.....	ug/kg		ND	5.6	1
75-00-3	Chloroethane.....	ug/kg		ND	11	1
110-75-8	2-Chloroethyl vinyl ether.....	ug/kg		ND	11	1
67-66-3	Chloroform.....	ug/kg		ND	5.6	1
74-87-3	Chloromethane.....	ug/kg		ND	11	1
95-49-8	2-Chlorotoluene.....	ug/kg		ND	5.6	1
106-43-4	4-Chlorotoluene.....	ug/kg		ND	5.6	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	5.6	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	5.6	1
74-95-3	Dibromomethane.....	ug/kg		ND	5.6	1

Login #L9804188
April 20, 1998 11:04 am

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-07
Client Sample ID: TB-17 (5-7')
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 13:53

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07099

Sample Weight: N/A
Extract Volume: N/A

% Solid: 89

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.6	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.6	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.6	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane	ug/kg	10		5.6	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.6	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.6	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	120	D	5.6	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.6	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.6	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.6	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.6	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.6	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.6	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.6	1
100-41-4	Ethylbenzene	ug/kg		ND	5.6	1
591-78-6	2-Hexanone	ug/kg		ND	11	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.6	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.6	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.6	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	11	1
75-09-2	Methylene chloride	ug/kg		ND	5.6	1
91-20-3	Naphthalene	ug/kg		ND	11	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.6	1
100-42-5	Styrene	ug/kg		ND	5.6	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.6	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.6	1
127-18-4	Tetrachloroethene	ug/kg	370	D	5.6	1
108-88-3	Toluene	ug/kg		ND	5.6	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.6	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.6	1
71-55-6	1,1,1-Trichloroethane	ug/kg	66		5.6	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.6	1
79-01-6	Trichloroethene	ug/kg	2000	D	5.6	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	11	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.6	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.6	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.6	1
108-05-4	Vinyl acetate	ug/kg		ND	11	1

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-07
Client Sample ID: TB-17 (5-7')
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 13:53

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07099

Sample Weight: N/A
Extract Volume: N/A

% Solid: 89

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-01-4	Vinyl chloride	ug/kg		ND	11	1
95-47-6	o-Xylene	ug/kg		ND	5.6	1
108-38-3	m-Xylene	ug/kg		ND	5.6	1
106-42-3	p-Xylene	ug/kg		ND	5.6	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	105	(80 - 120%)
1,2-Dichloroethane-d4	103	(80 - 120%)
Toluene-d8	94.9	(81 - 117%)
4-Bromofluorobenzene	76.1	(74 - 121%)

Lab Sample ID: L9804188-08
Client Sample ID: TB-17 (5-7')FIELD DUP
Site/Work ID: DAYTON THERMAL,BUILDING 40B

Matrix: Soil
Collected: 04/07/98 1030

% Solid: 97
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids	% wt.	97		1.0	1	N/A	MZL	04/16/98	14:05	D2216-90

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-08
Client Sample ID: TB-17 (5-7')FIELD DUP
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 14:26

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07100

Sample Weight: N/A
Extract Volume: N/A

% Solid: 97

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg		ND	100	1
71-43-2	Benzene	ug/kg		ND	5.2	1
108-86-1	Bromobenzene	ug/kg		ND	5.2	1
74-97-5	Bromochloromethane	ug/kg		ND	5.2	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.2	1
75-25-2	Bromoform	ug/kg		ND	5.2	1
74-83-9	Bromomethane	ug/kg		ND	5.2	1
73-93-3	2-Butanone	ug/kg		ND	10	1
104-51-8	n-Butylbenzene	ug/kg		ND	100	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.2	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.2	1
75-15-0	Carbon disulfide	ug/kg		ND	5.2	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.2	1
108-90-7	Chlorobenzene	ug/kg		ND	5.2	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.2	1
75-00-3	Chloroethane	ug/kg		ND	5.2	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	10	1
67-66-3	Chloroform	ug/kg		ND	10	1
74-87-3	Chloromethane	ug/kg		ND	5.2	1
95-49-8	2-Chlorotoluene	ug/kg		ND	10	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.2	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.2	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.2	1
74-95-3	Dibromomethane	ug/kg		ND	5.2	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.2	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.2	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.2	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	5.2	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	10	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.2	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.2	1
156-59-2	cis-1,2-Dichloroethene	ug/kg		ND	5.2	1
156-60-5	trans-1,2-Dichloroethene	ug/kg	24		5.2	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.2	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.2	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.2	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.2	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.2	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.2	1

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-08
Client Sample ID: TB-17 (5-7')FIELD DUP
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 14:26

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07100

Sample Weight: N/A
Extract Volume: N/A

% Solid: 97

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg		ND	5.2	1
591-78-6	2-Hexanone	ug/kg		ND	10	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.2	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.2	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.2	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	10	1
75-09-2	Methylene chloride	ug/kg		ND	5.2	1
91-20-3	Naphthalene	ug/kg		ND	10	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.2	1
100-42-5	Styrene	ug/kg		ND	5.2	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.2	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.2	1
127-18-4	Tetrachloroethene	ug/kg	200	D	5.2	1
108-88-3	Toluene	ug/kg		ND	5.2	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.2	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.2	1
71-55-6	1,1,1-Trichloroethane	ug/kg	16		5.2	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.2	1
79-01-6	Trichloroethene	ug/kg	260	D	5.2	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	10	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.2	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.2	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.2	1
108-05-4	Vinyl acetate	ug/kg		ND	10	1
75-01-4	Vinyl chloride	ug/kg		ND	10	1
95-47-6	o-Xylene	ug/kg		ND	5.2	1
108-38-3	m-Xylene	ug/kg		ND	5.2	1
106-42-3	p-Xylene	ug/kg		ND	5.2	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	123	*,RE	(80 - 120%)
1,2-Dichloroethane-d4	123	*,RE	(80 - 120%)
Toluene-d8	119	*,RE	(81 - 117%)
4-Bromofluorobenzene	111		(74 - 121%)

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9804188-09
Client Sample ID: TB-18 (3-5')
Site/Work ID: DAYTON THERMAL,BUILDING 40B

Matrix: Soil
Collected: 04/07/98 1120

% Solid: 88
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	88		1.0	1	N/A	MZL	04/16/98	14:05	D2216-90

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-09
Client Sample ID: TB-18 (3-5')
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 20:34

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07108

Sample Weight: N/A
Extract Volume: N/A

% Solid: 88

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone.....	ug/kg		ND	110	1
71-43-2	Benzene.....	ug/kg		ND	5.7	1
108-86-1	Bromobenzene.....	ug/kg		ND	5.7	1
74-97-5	Bromochloromethane.....	ug/kg		ND	5.7	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	5.7	1
75-25-2	Bromoform.....	ug/kg		ND	5.7	1
74-83-9	Bromomethane.....	ug/kg		ND	11	1
78-93-3	2-Butanone.....	ug/kg		ND	110	1
104-51-8	n-Butylbenzene.....	ug/kg		ND	5.7	1
135-98-8	sec-Butylbenzene.....	ug/kg		ND	5.7	1
98-06-6	tert-Butylbenzene.....	ug/kg		ND	5.7	1
75-15-0	Carbon disulfide.....	ug/kg		ND	5.7	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	5.7	1
108-90-7	Chlorobenzene.....	ug/kg		ND	5.7	1
124-48-1	Chlorodibromomethane.....	ug/kg		ND	5.7	1
75-00-3	Chloroethane.....	ug/kg		ND	11	1
110-75-8	2-Chloroethyl vinyl ether.....	ug/kg		ND	11	1
67-66-3	Chloroform.....	ug/kg		ND	5.7	1
74-87-3	Chloromethane.....	ug/kg		ND	11	1
95-49-8	2-Chlorotoluene.....	ug/kg		ND	5.7	1
106-43-4	4-Chlorotoluene.....	ug/kg		ND	5.7	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	5.7	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	5.7	1
74-95-3	Dibromomethane.....	ug/kg		ND	5.7	1

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-09
Client Sample ID: TB-18 (3-5')
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 20:34

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07108

Sample Weight: N/A
Extract Volume: N/A

% Solid: 88

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.7	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.7	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.7	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.7	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.7	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.7	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	6.8		5.7	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.7	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.7	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.7	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.7	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.7	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.7	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.7	1
100-41-4	Ethylbenzene	ug/kg		ND	5.7	1
591-78-6	2-Hexanone	ug/kg		ND	11	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.7	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.7	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.7	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	11	1
75-09-2	Methylene chloride	ug/kg		ND	5.7	1
91-20-3	Naphthalene	ug/kg		ND	11	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.7	1
100-42-5	Styrene	ug/kg		ND	5.7	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.7	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.7	1
127-18-4	Tetrachloroethene	ug/kg	27		5.7	1
108-88-3	Toluene	ug/kg		ND	5.7	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.7	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.7	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.7	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.7	1
79-01-6	Trichloroethene	ug/kg	52		5.7	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	11	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.7	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.7	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.7	1
108-05-4	Vinyl acetate	ug/kg		ND	11	1

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-09
Client Sample ID: TB-18 (3-5')
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 20:34

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07108

Sample Weight: N/A
Extract Volume: N/A

% Solid: 88

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-01-4	Vinyl chloride	ug/kg		ND	11	1
95-47-6	o-Xylene	ug/kg		ND	5.7	1
108-38-3	m-Xylene	ug/kg		ND	5.7	1
106-42-3	p-Xylene	ug/kg		ND	5.7	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	99.5	(80 - 120%)
1,2-Dichloroethane-d4	98.0	(80 - 120%)
Toluene-d8	95.8	(81 - 117%)
4-Bromofluorobenzene	85.4	(74 - 121%)

Lab Sample ID: L9804188-10
Client Sample ID: TB-19 (1-3')
Site/Work ID: DAYTON THERMAL,BUILDING 40B

Matrix: Soil
Collected: 04/07/98 1500

% Solid: 85
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids	% wt.	85		1.0	1	N/A	MZL	04/16/98	14:05	D2216-90

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-10
Client Sample ID: TB-19 (1-3')
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 15:33

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07102

Sample Weight: N/A
Extract Volume: N/A

% Solid: 85

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg		ND	120	1
71-43-2	Benzene	ug/kg		ND	5.9	1
108-86-1	Bromobenzene	ug/kg		ND	5.9	1
74-97-5	Bromochloromethane	ug/kg		ND	5.9	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.9	1
75-25-2	Bromoform	ug/kg		ND	5.9	1
74-83-9	Bromomethane	ug/kg		ND	12	1
78-93-3	2-Butanone	ug/kg		ND	120	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.9	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.9	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.9	1
75-15-0	Carbon disulfide	ug/kg		ND	5.9	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.9	1
108-90-7	Chlorobenzene	ug/kg		ND	5.9	1
124-48-1	Chlorodibromomethane	ug/kg		ND	5.9	1
75-00-3	Chloroethane	ug/kg		ND	12	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	12	1
67-66-3	Chloroform	ug/kg		ND	5.9	1
74-87-3	Chloromethane	ug/kg		ND	12	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.9	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.9	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.9	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.9	1
74-95-3	Dibromomethane	ug/kg		ND	5.9	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.9	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.9	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.9	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	12	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.9	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.9	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.9	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	130	D	5.9	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.9	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.9	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.9	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.9	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.9	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.9	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.9	1

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-10
Client Sample ID: TB-19 (1-3')
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 04/07/98

% Solid: 85

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 15:33

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07102

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg		ND	5.9	1
591-78-6	2-Hexanone	ug/kg		ND	12	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.9	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.9	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.9	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	12	1
75-09-2	Methylene chloride	ug/kg		ND	5.9	1
91-20-3	Naphthalene	ug/kg		ND	12	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.9	1
100-42-5	Styrene	ug/kg		ND	5.9	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.9	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.9	1
127-18-4	Tetrachloroethene	ug/kg	130	D	5.9	1
108-88-3	Toluene	ug/kg		ND	5.9	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.9	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.9	1
71-55-6	1,1,1-Trichloroethane	ug/kg	55		5.9	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.9	1
79-01-6	Trichloroethene	ug/kg	1400	D	5.9	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	12	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.9	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.9	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.9	1
108-05-4	Vinyl acetate	ug/kg		ND	12	1
75-01-4	Vinyl chloride	ug/kg		ND	12	1
95-47-6	o-Xylene	ug/kg		ND	5.9	1
108-38-3	m-Xylene	ug/kg		ND	5.9	1
106-42-3	p-Xylene	ug/kg		ND	5.9	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	103	(80 - 120%)
1,2-Dichloroethane-d4	102	(80 - 120%)
Toluene-d8	94.7	(81 - 117%)
4-Bromofluorobenzene	76.5	(74 - 121%)

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9804188-11
Client Sample ID: TB-19 (3-5')
Site/Work ID: DAYTON THERMAL,BUILDING 40B

Matrix: Soil
Collected: 04/07/98 1510

% Solid: 84
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	84		1.0	1	N/A	MZL	04/16/98	14:05	D2216-90

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-11
Client Sample ID: TB-19 (3-5')
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time:

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07096

Sample Weight: N/A
Extract Volume: N/A

% Solid: 84

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone.....	ug/kg		ND	120	1
71-43-2	Benzene.....	ug/kg		ND	6.0	1
108-86-1	Bromobenzene.....	ug/kg		ND	6.0	1
74-97-5	Bromochloromethane.....	ug/kg		ND	6.0	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	6.0	1
75-25-2	Bromoform.....	ug/kg		ND	6.0	1
74-83-9	Bromomethane.....	ug/kg		ND	12	1
78-93-3	2-Butanone.....	ug/kg		ND	120	1
104-51-8	n-Butylbenzene.....	ug/kg		ND	6.0	1
135-98-8	sec-Butylbenzene.....	ug/kg		ND	6.0	1
98-06-6	tert-Butylbenzene.....	ug/kg		ND	6.0	1
75-15-0	Carbon disulfide.....	ug/kg		ND	6.0	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	6.0	1
108-90-7	Chlorobenzene.....	ug/kg		ND	6.0	1
124-48-1	Chlorodibromomethane.....	ug/kg		ND	6.0	1
75-00-3	Chloroethane.....	ug/kg		ND	12	1
110-75-8	2-Chloroethyl vinyl ether.....	ug/kg		ND	12	1
67-66-3	Chloroform.....	ug/kg		ND	6.0	1
74-87-3	Chloromethane.....	ug/kg		ND	12	1
95-49-8	2-Chlorotoluene.....	ug/kg		ND	6.0	1
106-43-4	4-Chlorotoluene.....	ug/kg		ND	6.0	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	6.0	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	6.0	1
74-95-3	Dibromomethane.....	ug/kg		ND	6.0	1

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-11
Client Sample ID: TB-19 (3-5')
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time:

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07096

Sample Weight: N/A
Extract Volume: N/A

% Solid: 84

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	6.0	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	6.0	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	6.0	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	12	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	6.0	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	6.0	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	6.0	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	61	D	6.0	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	6.0	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	6.0	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	6.0	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	6.0	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	6.0	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	6.0	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	6.0	1
100-41-4	Ethylbenzene	ug/kg		ND	6.0	1
591-78-6	2-Hexanone	ug/kg		ND	12	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	6.0	1
98-82-8	Isopropylbenzene	ug/kg		ND	6.0	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	6.0	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	12	1
75-09-2	Methylene chloride	ug/kg		ND	6.0	1
91-20-3	Naphthalene	ug/kg		ND	12	1
103-65-1	n-Propylbenzene	ug/kg		ND	6.0	1
100-42-5	Styrene	ug/kg		ND	6.0	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	6.0	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	6.0	1
127-18-4	Tetrachloroethene	ug/kg	70		6.0	1
108-88-3	Toluene	ug/kg		ND	6.0	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	6.0	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	6.0	1
71-55-6	1,1,1-Trichloroethane	ug/kg	17		6.0	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	6.0	1
79-01-6	Trichloroethene	ug/kg	500	D	6.0	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	12	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	6.0	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	6.0	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	6.0	1
108-05-4	Vinyl acetate	ug/kg		ND	12	1

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-11
Client Sample ID: TB-19 (3-5')
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time:

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07096

Sample Weight: N/A
Extract Volume: N/A

% Solid: 84

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-01-4	Vinyl chloride.....	ug/kg		ND	12	1
95-47-6	o-Xylene.....	ug/kg		ND	6.0	1
108-38-3	m-Xylene.....	ug/kg		ND	6.0	1
106-42-3	p-Xylene.....	ug/kg		ND	6.0	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane.....	105	(80 - 120%)
1,2-Dichloroethane-d4.....	99.0	(80 - 120%)
Toluene-d8.....	101	(81 - 117%)
4-Bromofluorobenzene.....	84.3	(74 - 121%)

Lab Sample ID: L9804188-12
Client Sample ID: TB-19 (3-5')/MS
Site/Work ID: DAYTON THERMAL,BUILDING 40B

Matrix: Soil
Collected: 04/07/98 1510

% Solid: 87
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	87		1.0	1	N/A	MZL	04/16/98	14:05	D2216-90

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-12
Client Sample ID: TB-19 (3-5')/MS
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 12:47

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07097

Sample Weight: N/A
Extract Volume: N/A

% Solid: 87

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	% Recovery	73.1		100	1
71-43-2	Benzene	% Recovery	96.0		5.0	1
108-86-1	Bromobenzene	% Recovery	80.0		5.0	1
74-97-5	Bromochloromethane	% Recovery	98.4		5.0	1
75-27-4	Bromodichloromethane	% Recovery	95.1		5.0	1
75-25-2	Bromoform	% Recovery	81.6		5.0	1
74-83-9	Bromomethane	% Recovery	99.5		10	1
78-93-3	2-Butanone	% Recovery	72.2		100	1
104-51-8	n-Butylbenzene	% Recovery	66.5		5.0	1
135-98-8	sec-Butylbenzene	% Recovery	73.6		5.0	1
98-06-6	tert-Butylbenzene	% Recovery	77.7		5.0	1
75-15-0	Carbon disulfide	% Recovery	116		5.0	1
56-23-5	Carbon tetrachloride	% Recovery	89.7		5.0	1
108-90-7	Chlorobenzene	% Recovery	83.8		5.0	1
124-48-1	Chlorodibromomethane	% Recovery	91.5		5.0	1
75-00-3	Chloroethane	% Recovery	85.4		10	1
110-75-8	2-Chloroethyl vinyl ether	% Recovery	129		10	1
67-66-3	Chloroform	% Recovery	97.1		5.0	1
74-87-3	Chloromethane	% Recovery	84.3		10	1
95-49-8	2-Chlorotoluene	% Recovery	78.8		5.0	1
106-43-4	4-Chlorotoluene	% Recovery	77.5		5.0	1
96-12-8	1,2-Dibromo-3-chloropropane	% Recovery	80.6		5.0	1
106-93-4	1,2-Dibromoethane	% Recovery	93.1		5.0	1
74-95-3	Dibromomethane	% Recovery	94.0		5.0	1
95-50-1	1,2-Dichlorobenzene	% Recovery	72.5		5.0	1
541-73-1	1,3-Dichlorobenzene	% Recovery	71.0		5.0	1
106-46-7	1,4-Dichlorobenzene	% Recovery	69.9		5.0	1
75-71-8	Dichlorodifluoromethane	% Recovery	77.4		10	1
75-34-3	1,1-Dichloroethane	% Recovery	102		5.0	1
107-06-2	1,2-Dichloroethane	% Recovery	94.9		5.0	1
75-35-4	1,1-Dichloroethene	% Recovery	104		5.0	1
156-59-2	cis-1,2-Dichloroethene	% Recovery		NS	5.0	1
156-60-5	trans-1,2-Dichloroethene	% Recovery	110		5.0	1
78-87-5	1,2-Dichloropropane	% Recovery	96.9		5.0	1
142-28-9	1,3-Dichloropropane	% Recovery	93.9		5.0	1
594-20-7	2,2-Dichloropropane	% Recovery	96.3		5.0	1
10061-01-5	cis-1,3-Dichloropropene	% Recovery	98.3		5.0	1
10061-02-6	trans-1,3-Dichloropropene	% Recovery	91.6		5.0	1
563-58-6	1,1-Dichloropropene	% Recovery	97.4		5.0	1

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-12
Client Sample ID: TB-19 (3-5')/MS
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 12:47

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07097

Sample Weight: N/A
Extract Volume: N/A

% Solid: 87

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	% Recovery	86.2		5.0	1
591-78-6	2-Hexanone	% Recovery	77.6		10	1
87-68-3	Hexachlorobutadiene	% Recovery	53.9		5.0	1
98-82-8	Isopropylbenzene	% Recovery	83.7		5.0	1
99-87-6	p-Isopropyltoluene	% Recovery	71.8		5.0	1
108-10-1	4-Methyl-2-pentanone	% Recovery	107		10	1
75-09-2	Methylene chloride	% Recovery	102		5.0	1
91-20-3	Naphthalene	% Recovery	65.6		10	1
103-65-1	n-Propylbenzene	% Recovery	78.6		5.0	1
100-42-5	Styrene	% Recovery	85.7		5.0	1
630-20-6	1,1,1,2-Tetrachloroethane	% Recovery	88.4		5.0	1
79-34-5	1,1,2,2-Tetrachloroethane	% Recovery	90.1		5.0	1
127-18-4	Tetrachloroethene	% Recovery	9.65		5.0	1
108-88-3	Toluene	% Recovery	91.9		5.0	1
87-61-6	1,2,3-Trichlorobenzene	% Recovery	56.5		5.0	1
120-82-1	1,2,4-Trichlorobenzene	% Recovery	56.5		5.0	1
71-55-6	1,1,1-Trichloroethane	% Recovery	34.3		5.0	1
79-00-5	1,1,2-Trichloroethane	% Recovery	96.6		5.0	1
79-01-6	Trichloroethene	% Recovery		NS	5.0	1
75-69-4	Trichlorofluoromethane	% Recovery	106		10	1
96-18-4	1,2,3-Trichloropropane	% Recovery	89.7		5.0	1
95-63-6	1,2,4-Trimethylbenzene	% Recovery	80.6		5.0	1
108-67-8	1,3,5-Trimethylbenzene	% Recovery	82.0		5.0	1
108-05-4	Vinyl acetate	% Recovery	38.5		10	1
75-01-4	Vinyl chloride	% Recovery	81.6		10	1
95-47-6	o-Xylene	% Recovery	89.9		5.0	1
108-38-3	m-Xylene	% Recovery	86.8	X	5.0	1
106-42-3	p-Xylene	% Recovery		X	5.0	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	107	(80 - 120%)
1,2-Dichloroethane-d4	104	(80 - 120%)
Toluene-d8	103	(81 - 117%)
4-Bromofluorobenzene	91.1	(74 - 121%)

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9804188-13
Client Sample ID: TB-19 (3-5')/MSD
Site/Work ID: DAYTON THERMAL,BUILDING 40B

Matrix: Soil
Collected: 04/07/98 1510

% Solid: 87
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	87		1.0	1	N/A	MZL	04/16/98	14:05	D2216-90

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-13
Client Sample ID: TB-19 (3-5')/MSD
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 13:20

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07098

Sample Weight: N/A
Extract Volume: N/A

% Solid: 87

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone.....	% Recovery	72.0		100	1
71-43-2	Benzene.....	% Recovery	99.0		5.0	1
108-86-1	Bromobenzene.....	% Recovery	82.0		5.0	1
74-97-5	Bromochloromethane.....	% Recovery	102		5.0	1
75-27-4	Bromodichloromethane.....	% Recovery	98.5		5.0	1
75-25-2	Bromoform.....	% Recovery	82.5		5.0	1
74-83-9	Bromomethane.....	% Recovery	99.0		10	1
78-93-3	2-Butanone.....	% Recovery	71.5		100	1
104-51-8	n-Butylbenzene.....	% Recovery	67.0		5.0	1
135-98-8	sec-Butylbenzene.....	% Recovery	75.5		5.0	1
98-06-6	tert-Butylbenzene.....	% Recovery	80.0		5.0	1
75-15-0	Carbon disulfide.....	% Recovery	119		5.0	1
56-23-5	Carbon tetrachloride.....	% Recovery	92.0		5.0	1
108-90-7	Chlorobenzene.....	% Recovery	86.5		5.0	1
124-48-1	Chlorodibromomethane.....	% Recovery	92.5		5.0	1
75-00-3	Chloroethane.....	% Recovery	87.0		10	1
110-75-8	2-Chloroethyl vinyl ether.....	% Recovery	126		10	1
67-66-3	Chloroform.....	% Recovery	101		5.0	1
74-87-3	Chloromethane.....	% Recovery	87.5		10	1
95-49-8	2-Chlorotoluene.....	% Recovery	81.0		5.0	1
106-43-4	4-Chlorotoluene.....	% Recovery	79.0		5.0	1
96-12-8	1,2-Dibromo-3-chloropropane.....	% Recovery	78.0		5.0	1
106-93-4	1,2-Dibromoethane.....	% Recovery	95.0		5.0	1
74-95-3	Dibromomethane.....	% Recovery	96.5		5.0	1

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-13
Client Sample ID: TB-19 (3-5')/MSD
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 13:20

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07098

Sample Weight: N/A
Extract Volume: N/A

% Solid: 87

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
95-50-1	1,2-Dichlorobenzene	% Recovery	73.0		5.0	1
541-73-1	1,3-Dichlorobenzene	% Recovery	72.0		5.0	1
106-46-7	1,4-Dichlorobenzene	% Recovery	71.0		5.0	1
75-71-8	Dichlorodifluoromethane	% Recovery	81.5		10	1
75-34-3	1,1-Dichloroethane	% Recovery	93.2		5.0	1
107-06-2	1,2-Dichloroethane	% Recovery	96.5		5.0	1
75-35-4	1,1-Dichloroethene	% Recovery	109		5.0	1
156-59-2	cis-1,2-Dichloroethene	% Recovery		NS	5.0	1
156-60-5	trans-1,2-Dichloroethene	% Recovery	114		5.0	1
78-87-5	1,2-Dichloropropane	% Recovery	100		5.0	1
142-28-9	1,3-Dichloropropane	% Recovery	96.0		5.0	1
594-20-7	2,2-Dichloropropane	% Recovery	98.0		5.0	1
10061-01-5	cis-1,3-Dichloropropene	% Recovery	101		5.0	1
10061-02-6	trans-1,3-Dichloropropene	% Recovery	94.0		5.0	1
563-58-6	1,1-Dichloropropene	% Recovery	101		5.0	1
100-41-4	Ethylbenzene	% Recovery	88.5		5.0	1
591-78-6	2-Hexanone	% Recovery	76.5		10	1
87-68-3	Hexachlorobutadiene	% Recovery	54.5		5.0	1
98-82-8	Isopropylbenzene	% Recovery	85.5		5.0	1
99-87-6	p-Isopropyltoluene	% Recovery	73.0		5.0	1
108-10-1	4-Methyl-2-pentanone	% Recovery	108		10	1
75-09-2	Methylene chloride	% Recovery	106		5.0	1
91-20-3	Naphthalene	% Recovery	64.5		10	1
103-65-1	n-Propylbenzene	% Recovery	80.5		5.0	1
100-42-5	Styrene	% Recovery	87.0		5.0	1
630-20-6	1,1,1,2-Tetrachloroethane	% Recovery	89.5		5.0	1
79-34-5	1,1,2,2-Tetrachloroethane	% Recovery	91.5		5.0	1
127-18-4	Tetrachloroethene	% Recovery		NS	5.0	1
108-88-3	Toluene	% Recovery	92.5		5.0	1
87-61-6	1,2,3-Trichlorobenzene	% Recovery	54.5		5.0	1
120-82-1	1,2,4-Trichlorobenzene	% Recovery	55.0		5.0	1
71-55-6	1,1,1-Trichloroethane	% Recovery	34.5		5.0	1
79-00-5	1,1,2-Trichloroethane	% Recovery	98.0		5.0	1
79-01-6	Trichloroethene	% Recovery		NS	5.0	1
75-69-4	Trichlorofluoromethane	% Recovery	108		10	1
96-18-4	1,2,3-Trichloropropane	% Recovery	90.0		5.0	1
95-63-6	1,2,4-Trimethylbenzene	% Recovery	82.0		5.0	1
108-67-8	1,3,5-Trimethylbenzene	% Recovery	83.5		5.0	1
108-05-4	Vinyl acetate	% Recovery	26.7		10	1

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9804188-13
Client Sample ID: TB-19 (3-5')/MSD
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 13:20

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU07098

Sample Weight: N/A
Extract Volume: N/A

% Solid: 87

Method: 8260A
Run ID: R45035

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-01-4	Vinyl chloride	% Recovery	84.0		10	1
95-47-6	o-Xylene	% Recovery	90.5		5.0	1
108-38-3	m-Xylene	% Recovery	88.5	X	5.0	1
106-42-3	p-Xylene	% Recovery		X	5.0	1

SURFOGATES- In Percent Recovery:

Dibromofluoromethane	110	(80 - 120%)
1,2-Dichloroethane-d4	107	(80 - 120%)
Toluene-d8	106	(81 - 117%)
4-Bromofluorobenzene	92.7	(74 - 121%)

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9804188-14
Client Sample ID: FB040798
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Water

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 19:56

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS2
Analyst: SLT
Lab File ID: 2CU23702

Sample Weight: N/A
Extract Volume: N/A

% Solid: N/A

Method: 8260A
Run ID: R44930

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/L		ND	100	1
71-43-2	Benzene	ug/L		ND	5.0	1
108-86-1	Bromobenzene	ug/L		ND	5.0	1
74-97-5	Bromochloromethane	ug/L		ND	5.0	1
75-27-4	Bromodichloromethane	ug/L		ND	5.0	1
75-25-2	Bromoform	ug/L		ND	5.0	1
74-83-9	Bromomethane	ug/L		ND	10	1
78-93-3	2-Butanone	ug/L		ND	100	1

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9804188-14
Client Sample ID: FB040798
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Water

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 19:56

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS2
Analyst: SLT
Lab File ID: 2CU23702

Sample Weight: N/A
Extract Volume: N/A

% Solid: N/A

Method: 8260A
Run ID: R44930

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
104-51-8	n-Butylbenzene	ug/L		ND	5.0	1
135-98-8	sec-Butylbenzene	ug/L		ND	5.0	1
98-06-6	tert-Butylbenzene	ug/L		ND	5.0	1
75-15-0	Carbon disulfide	ug/L		ND	5.0	1
56-23-5	Carbon tetrachloride	ug/L		ND	5.0	1
108-90-7	Chlorobenzene	ug/L		ND	100	1
124-48-1	Chlorodibromomethane	ug/L		ND	5.0	1
75-00-3	Chloroethane	ug/L		ND	10	1
110-75-8	2-Chloroethyl vinyl ether	ug/L		ND	10	1
67-66-3	Chloroform	ug/L		ND	5.0	1
74-87-3	Chloromethane	ug/L		ND	10	1
95-49-8	2-Chlorotoluene	ug/L		ND	5.0	1
106-43-4	4-Chlorotoluene	ug/L		ND	5.0	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/L		ND	5.0	1
106-93-4	1,2-Dibromoethane	ug/L		ND	5.0	1
74-95-3	Dibromomethane	ug/L		ND	5.0	1
95-50-1	1,2-Dichlorobenzene	ug/L		ND	600	1
541-73-1	1,3-Dichlorobenzene	ug/L		ND	5.0	1
106-46-7	1,4-Dichlorobenzene	ug/L		ND	75	1
75-71-8	Dichlorodifluoromethane	ug/L		ND	10	1
75-34-3	1,1-Dichloroethane	ug/L		ND	5.0	1
107-06-2	1,2-Dichloroethane	ug/L		ND	5.0	1
75-35-4	1,1-Dichloroethene	ug/L		ND	7.0	1
156-59-2	cis-1,2-Dichloroethene	ug/L		ND	70	1
156-60-5	trans-1,2-Dichloroethene	ug/L		ND	100	1
78-87-5	1,2-Dichloropropane	ug/L		ND	5.0	1
142-28-9	1,3-Dichloropropane	ug/L		ND	5.0	1
594-20-7	2,2-Dichloropropane	ug/L		ND	5.0	1
10061-01-5	cis-1,3-Dichloropropene	ug/L		ND	5.0	1
10061-02-6	trans-1,3-Dichloropropene	ug/L		ND	5.0	1
563-58-6	1,1-Dichloropropene	ug/L		ND	5.0	1
100-41-4	Ethylbenzene	ug/L		ND	700	1
591-78-6	2-Hexanone	ug/L		ND	10	1
87-68-3	Hexachlorobutadiene	ug/L		ND	5.0	1
98-82-8	Isopropylbenzene	ug/L		ND	5.0	1
99-87-6	p-Isopropyltoluene	ug/L		ND	5.0	1
108-10-1	4-Methyl-2-pentanone	ug/L		ND	10	1
75-09-2	Dichloromethane	ug/L		ND	5.0	1
91-20-3	Naphthalene	ug/L		ND	10	1

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9804188-14
Client Sample ID: FB040798
Site/Work ID: DAYTON THERMAL,BUILDING 40B
Matrix: Water

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 04/15/98 Time: 19:56

Dil. Type: N/A
COC Info: N/A

Date Collected: 04/07/98

Instrument: HPMS2
Analyst: SLT
Lab File ID: 2CU23702

Sample Weight: N/A
Extract Volume: N/A

% Solid: N/A

Method: 8260A
Run ID: R44930

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
103-65-1	n-Propylbenzene	ug/L		ND	5.0	1
100-42-5	Styrene	ug/L		ND	100	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/L		ND	5.0	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/L		ND	5.0	1
127-18-4	Tetrachloroethene	ug/L		ND	5.0	1
108-88-3	Toluene	ug/L		ND	1000	1
87-61-6	1,2,3-Trichlorobenzene	ug/L		ND	5.0	1
120-82-1	1,2,4-Trichlorobenzene	ug/L		ND	70	1
71-55-6	1,1,1-Trichloroethane	ug/L		ND	200	1
79-00-5	1,1,2-Trichloroethane	ug/L		ND	5.0	1
79-01-6	Trichloroethene	ug/L		ND	5.0	1
75-69-4	Trichlorofluoromethane	ug/L		ND	10	1
96-18-4	1,2,3-Trichloropropane	ug/L		ND	5.0	1
95-63-6	1,2,4-Trimethylbenzene	ug/L		ND	5.0	1
108-67-8	1,3,5-Trimethylbenzene	ug/L		ND	5.0	1
108-05-4	Vinyl acetate	ug/L		ND	10	1
75-01-4	Vinyl chloride	ug/L		ND	2.0	1
1330-20-7	Xylenes, Total	ug/L		ND	10000	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	105	(86 - 118%)
1,2-Dichloroethane-d4	111	(80 - 120%)
Toluene-d8	99.1	(88 - 110%)
4-Bromofluorobenzene	98.7	(86 - 115%)

Order #: 98-04-188
April 20, 1998 11:05 am

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Analyst	Date Collected	Run Date	Run Time	Department
WG39218	R44930	L9804188-01		Water	Volatile Organics	8260A	SLT	06-APR-1998	15-APR-1998	18:44	Volatile - GC/MS
WG39218	R44930	L9804188-02		Water	Volatile Organics	8260A	SLT	06-APR-1998	15-APR-1998	19:21	Volatile - GC/MS
WG39218	R44930	L9804188-14		Water	Volatile Organics	8260A	SLT	07-APR-1998	15-APR-1998	19:56	Volatile - GC/MS
WG39219	R45028	L9804188-03		Soil	Volatile Organics	8260A	SLT	06-APR-1998	15-APR-1998	00:37	Volatile - GC/MS
WG39219	R45028	L9804188-06		Soil	Volatile Organics	8260A	SLT	07-APR-1998	15-APR-1998	02:15	Volatile - GC/MS
WG39221	R45035	L9804188-04		Soil	Volatile Organics	8260A	SLT	06-APR-1998	15-APR-1998	18:23	Volatile - GC/MS
WG39221	R45035	L9804188-05		Soil	Volatile Organics	8260A	SLT	07-APR-1998	15-APR-1998	18:56	Volatile - GC/MS
WG39221	R45035	L9804188-07		Soil	Volatile Organics	8260A	SLT	07-APR-1998	15-APR-1998	13:53	Volatile - GC/MS
WG39221	R45035	L9804188-08		Soil	Volatile Organics	8260A	SLT	07-APR-1998	15-APR-1998	14:26	Volatile - GC/MS
WG39221	R45035	L9804188-09		Soil	Volatile Organics	8260A	SLT	07-APR-1998	15-APR-1998	20:34	Volatile - GC/MS
WG39221	R45035	L9804188-10		Soil	Volatile Organics	8260A	SLT	07-APR-1998	15-APR-1998	15:33	Volatile - GC/MS
WG39221	R45035	L9804188-11		Soil	Volatile Organics	8260A	SLT	07-APR-1998	15-APR-1998		Volatile - GC/MS
WG39221	R45035	L9804188-12		Soil	Volatile Organics	8260A	SLT	07-APR-1998	15-APR-1998	12:47	Volatile - GC/MS
WG39221	R45035	L9804188-13		Soil	Volatile Organics	8260A	SLT	07-APR-1998	15-APR-1998	13:20	Volatile - GC/MS
WG39275	R44952	L9804188-03		Soil	Percent Solids	D2216-90	MZL	06-APR-1998	16-APR-1998	14:05	Conventionals
WG39275	R44952	L9804188-04		Soil	Percent Solids	D2216-90	MZL	06-APR-1998	16-APR-1998	14:05	Conventionals
WG39275	R44952	L9804188-05		Soil	Percent Solids	D2216-90	MZL	07-APR-1998	16-APR-1998	14:05	Conventionals
WG39275	R44952	L9804188-06		Soil	Percent Solids	D2216-90	MZL	07-APR-1998	16-APR-1998	14:05	Conventionals
WG39275	R44952	L9804188-07		Soil	Percent Solids	D2216-90	MZL	07-APR-1998	16-APR-1998	14:05	Conventionals
WG39275	R44952	L9804188-08		Soil	Percent Solids	D2216-90	MZL	07-APR-1998	16-APR-1998	14:05	Conventionals
WG39275	R44952	L9804188-09		Soil	Percent Solids	D2216-90	MZL	07-APR-1998	16-APR-1998	14:05	Conventionals
WG39275	R44952	L9804188-10		Soil	Percent Solids	D2216-90	MZL	07-APR-1998	16-APR-1998	14:05	Conventionals
WG39275	R44952	L9804188-11		Soil	Percent Solids	D2216-90	MZL	07-APR-1998	16-APR-1998	14:05	Conventionals
WG39275	R44952	L9804188-12		Soil	Percent Solids	D2216-90	MZL	07-APR-1998	16-APR-1998	14:05	Conventionals
WG39275	R44952	L9804188-13		Soil	Percent Solids	D2216-90	MZL	07-APR-1998	16-APR-1998	14:05	Conventionals

KEMRON ANALYST LIST

Ohio Valley Laboratory

03/12/98

ALC - - Ann L. Clark
BWH - - Ben W. Haynes
CEB - - Chad E. Barnes
CLH - - Chris L. Hurst
CMS - - Crystal M. Stevens
CRC - - Carla R. Cochran
DIH - - Deanna I. Hesson
DLN - - Deanna L. Norton
DLP - - Dorothy L. Payne
DST - - Dennis S. Tepe
ECL - - Eric C. Lawson
EDG - - Eric D. Gerkin
FEH - - Fay E. Harmon
HV - - Hema Vilasagar
JKM - - June K. Morris
JLH - - Janice L. Holland
JMM - - Jim M. Monk
JWR - - John W. Richards
JYH - - Ji Y. Hu
KHA - - Kim H. Archer
KMM - - Kevin M. McDonald
KRA - - Kathy R. Albertson
MAR - - MaryAnn Roach
MDA - - Mike D. Albertson
MDC - - Michael D. Cochran
MES - - Mary E. Schiling
MLS - - Michael L. Schimmel
MMB - - Maren M. Beery
MZL - - Melanie Z. Lewis
RDC - - Rebecca D. Cutlip
RDS - - Rebecca D. Sutton
REF - - Ron E. Fertile
REK - - Robert E. Kyer
RSS - - Regina S. Simmons
RWC - - Rodney W. Campbell
SJM - - Shawn J. Marshall
SLP - - Sheri L. Pfalzgraf
SLT - - Stephanie L. Tepe
SMW - - Shauna M. Welch
SPL - - Steve P. Learn
TLD - - Teresa L. Davis
VC - - Vicki Collier
WCD - - Wade C. Dawson

KEMRON Environmental Services, Inc.
LIST OF VALID QUALIFIERS (qual)
March 9, 1998

Qualifier	Description
(A)	See the report narrative
(B)	See the report narrative
(C)	See the report narrative
+	Correlation coefficient for the MSA is less than 0.995
<	Less than
>	Greater than
B	Present in the method blank
C	Confirmed by GC/MS
*	Surrogate or spike compound out of range
CG	Confluent growth
D	The analyte was quantified at a secondary dilution factor
DL	Surrogate or spike was diluted out
E	Estimated concentration due to sample matrix interference
F	Present below nominal reporting limit (AFCEE only)
FL	Free liquid
I	Semiquantitative result, out of instrument calibration range
J	Present below nominal reporting limit
L	Sample reporting limits elevated due to matrix interference
M	Duplicate injection precision not met

Qualifier	Description
N	Tentatively Identified Compound (TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL)
NF	Not found
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentration > 25% difference between the two GC columns
QNS	Quantity not sufficient to perform analysis
R	Analyte exceeds regulatory limit
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TNTC	Too numerous to count
U	Analyzed for but not detected
W	Post-digestion spike for furnace AA out of control limits
X	Can not be resolved from isomer. See below.

Special Notes for Organic Analytes

1. Acrolein and acrylonitrile by method 624 are semiquantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.

ORGANIC QA/QC

KEMRON
ENVIRONMENTAL SERVICES

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG39219	Run Date:	4/14/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	04-215-01	SMPL DF:	1
Matrix:	SOIL	BLK FLNM:	6BK07071	SMPL FLNM:	6OH07072	MS DF:	1
Units:	ug/kg	BLK2 FLNM:	NA	MS FLNM:	6OH07073	MSD DF:	1
		LCS FLNM:	6QC07070	MSD FLNM:	6OH07074		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
dichlorodifluoromethane	10.0	ND	ND	16.3	NA	20.0	ND	17.9	17.0	20.0	81.5	NA	22.0	167.0	89.5	85.0	60.0	140.0	5.2	20.0
chloromethane	10.0	ND	ND	17.3	NA	20.0	ND	19.3	18.1	20.0	86.5	NA	47.0	144.0	96.5	90.5	60.0	140.0	6.4	20.0
vinyl chloride	10.0	ND	ND	16.8	NA	20.0	ND	18.9	17.6	20.0	84.0	NA	56.0	142.0	94.5	88.0	60.0	140.0	7.1	20.0
bromomethane	10.0	ND	ND	19.9	NA	20.0	ND	22.2	20.7	20.0	99.5	NA	31.0	167.0	111.0	103.5	60.0	140.0	7.0	20.0
chloroethane	10.0	ND	ND	18.0	NA	20.0	ND	20.0	18.8	20.0	90.0	NA	41.0	156.0	100.0	94.0	60.0	140.0	6.2	20.0
trichlorofluoromethane	10.0	ND	ND	21.9	NA	20.0	ND	24.2	23.0	20.0	109.5	NA	66.0	127.0	121.0	115.0	60.0	140.0	5.1	20.0
freon 113	10.0	ND	ND	NA	NA	20.0	ND	NA	NA	20.0	NA	NA	NA	NA	NA	NA	60.0	140.0	NA	20.0
acetone	100.0	ND	ND	11.7	NA	20.0	ND	19.7	19.0	20.0	58.5	NA	NA	NA	98.5	95.0	60.0	140.0	3.6	20.0
1,1-dichloroethene	5.0	ND	ND	22.2	NA	20.0	ND	23.3	22.7	20.0	111.0	NA	67.0	130.0	116.5	113.5	60.0	140.0	2.6	20.0
iodomethane	10.0	ND	ND	NA	NA	20.0	ND	NA	NA	20.0	NA	NA	NA	NA	NA	NA	60.0	140.0	NA	20.0
methylene chloride	5.0	ND	ND	20.1	NA	20.0	ND	21.5	20.4	20.0	100.5	NA	77.0	128.0	107.5	102.0	60.0	140.0	5.3	20.0
carbon disulfide	5.0	ND	ND	23.0	NA	20.0	ND	24.1	23.8	20.0	115.0	NA	NA	NA	120.5	119.0	60.0	140.0	1.3	20.0
acrylonitrile	100.0	ND	ND	NA	NA	20.0	ND	NA	NA	20.0	NA	NA	NA	NA	NA	NA	60.0	140.0	NA	20.0
trans-1,2-dichloroethene	5.0	ND	ND	22.9	NA	20.0	ND	24.1	23.2	20.0	114.5	NA	79.0	122.0	120.5	116.0	60.0	140.0	3.8	20.0
vinyl acetate	10.0	ND	ND	15.6	NA	20.0	ND	11.4	8.6	20.0	78.0	NA	NA	NA	57.0	43.0	60.0	140.0	28.1	20.0
1,1-dichloroethane	5.0	ND	ND	21.2	NA	20.0	ND	23.3	22.0	20.0	106.0	NA	84.0	115.0	116.5	110.0	60.0	140.0	5.7	20.0
2-butanone	100.0	ND	ND	16.1	NA	20.0	ND	17.1	15.9	20.0	80.5	NA	NA	NA	85.5	79.5	60.0	140.0	7.3	20.0
2,2-dichloropropane	5.0	ND	ND	20.5	NA	20.0	ND	22.2	20.9	20.0	102.5	NA	82.0	114.0	111.0	104.5	60.0	140.0	6.0	20.0
cis-1,2-dichloroethene	5.0	ND	ND	20.9	NA	20.0	ND	22.3	21.1	20.0	104.5	NA	84.0	120.0	111.5	105.5	60.0	140.0	5.5	20.0
chloroform	5.0	ND	ND	20.3	NA	20.0	ND	22.2	21.0	20.0	101.5	NA	85.0	116.0	111.0	105.0	60.0	140.0	5.6	20.0

Notes and Definitions:

RDL= Reporting Detection Limit
BLK= Method Blank
BLK2= Second Method Blank
LCS= Laboratory Control Sample
LCS2= Second Laboratory Control Sample
SMPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
RPD= Relative Percent Difference

ND= Not Detected
NA= Not Applicable

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG39219	Run Date:	4/14/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	04-215-01	SMPL DF:	1
Matrix:	SOIL	BLK FLNM:	6BK07071	SMPL FLNM:	6OH07072	MS DF:	1
Units:	ug/kg	BLK2 FLNM:	NA	MS FLNM:	6OH07073	MSD DF:	1
		LCS FLNM:	6QC07070	MSD FLNM:	6OH07074		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
	RDL	BLK	BLK2	LCS	LCS2	LCS Spike Level	SMPL	MS	MSD	MS Spike Level	LCS	LCS2	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	MS RPD	RPD UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
bromochloromethane	5.0	ND	ND	21.0	NA	20.0	ND	21.8	20.7	20.0	105.0	NA	83.0	117.0	109.0	103.5	60.0	140.0	5.2	20.0
1,1,1-trichloroethane	5.0	ND	ND	20.3	NA	20.0	ND	22.1	21.0	20.0	101.5	NA	84.0	112.0	110.5	105.0	60.0	140.0	5.1	20.0
1,1-dichloropropene	5.0	ND	ND	22.8	NA	20.0	ND	24.0	22.8	20.0	114.0	NA	92.0	119.0	120.0	114.0	60.0	140.0	5.1	20.0
carbon tetrachloride	5.0	ND	ND	20.2	NA	20.0	ND	21.7	20.2	20.0	101.0	NA	85.0	111.0	108.5	101.0	60.0	140.0	7.2	20.0
1,2-dichloroethane	5.0	ND	ND	20.1	NA	20.0	ND	21.6	20.2	20.0	100.5	NA	87.0	118.0	108.0	101.0	60.0	140.0	6.7	20.0
benzene	5.0	ND	ND	20.9	NA	20.0	ND	22.5	21.3	20.0	104.5	NA	88.0	112.0	112.5	106.5	60.0	140.0	5.5	20.0
trichloroethene	5.0	ND	ND	20.4	NA	20.0	ND	20.9	19.7	20.0	102.0	NA	87.0	119.0	104.5	98.5	60.0	140.0	5.9	20.0
1,2-dichloropropane	5.0	ND	ND	20.8	NA	20.0	ND	22.3	21.2	20.0	104.0	NA	94.0	121.0	111.5	106.0	60.0	140.0	5.1	20.0
bromodichloromethane	5.0	ND	ND	20.7	NA	20.0	ND	22.4	21.0	20.0	103.5	NA	88.0	116.0	112.0	105.0	60.0	140.0	6.5	20.0
dibromomethane	5.0	ND	ND	20.5	NA	20.0	ND	21.4	19.7	20.0	102.5	NA	85.0	118.0	107.0	98.5	60.0	140.0	8.3	20.0
2-chloroethylvinyl-ether	5.0	ND	ND	28.3	NA	20.0	ND	27.4	26.4	20.0	141.5	NA	NA	NA	137.0	132.0	60.0	140.0	3.7	20.0
4-methyl-2-pentanone	10.0	ND	ND	25.0	NA	20.0	ND	23.3	21.7	20.0	125.0	NA	NA	NA	116.5	108.5	60.0	140.0	7.1	20.0
cis-1,3-dichloropropene	5.0	ND	ND	22.3	NA	20.0	ND	23.2	21.8	20.0	111.5	NA	86.0	121.0	116.0	109.0	60.0	140.0	6.2	20.0
toluene	5.0	ND	ND	19.2	NA	20.0	ND	20.9	19.5	20.0	96.0	NA	84.0	113.0	104.5	97.5	60.0	140.0	6.9	20.0
trans-1,3-dichloropropene	5.0	ND	ND	21.1	NA	20.0	ND	21.9	20.5	20.0	105.5	NA	82.0	122.0	109.5	102.5	60.0	140.0	6.6	20.0
1,1,2-trichloroethane	5.0	ND	ND	21.0	NA	20.0	ND	22.1	20.5	20.0	105.0	NA	86.0	124.0	110.5	102.5	60.0	140.0	7.5	20.0
2-hexanone	10.0	ND	ND	18.8	NA	20.0	ND	16.9	15.6	20.0	94.0	NA	NA	NA	84.5	78.0	60.0	140.0	8.0	20.0
1,3-dichloropropane	5.0	ND	ND	21.2	NA	20.0	ND	22.4	20.8	20.0	106.0	NA	80.0	122.0	112.0	104.0	60.0	140.0	7.4	20.0
tetrachloroethene	5.0	ND	ND	21.0	NA	20.0	ND	21.7	20.4	20.0	105.0	NA	79.0	114.0	108.5	102.0	60.0	140.0	6.2	20.0
dibromochloromethane	5.0	ND	ND	20.8	NA	20.0	ND	21.6	20.3	20.0	104.0	NA	77.0	119.0	108.0	101.5	60.0	140.0	6.2	20.0

Notes and Definitions:

RDL= Reporting Detection Limit
BLK= Method Blank
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LCS= Laboratory Control Sample
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ND= Not Detected
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KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG39219	Run Date:	4/14/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	04-215-01	SMPL DF:	1
Matrix:	SOIL	BLK FLNM:	6BK07071	SMPL FLNM:	6OH07072	MS DF:	1
Units:	ug/kg	BLK2 FLNM:	NA	MS FLNM:	6OH07073	MSD DF:	1
		LCS FLNM:	6QC07070	MSD FLNM:	6OH07074		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
1,2-dibromoethane	5.0	ND	ND	21.2	NA	20.0	ND	22.0	20.3	20.0	106.0	NA	76.0	123.0	110.0	101.5	60.0	140.0	8.0	20.0
chlorobenzene	5.0	ND	ND	20.7	NA	20.0	ND	21.5	20.5	20.0	103.5	NA	80.0	116.0	107.5	102.5	60.0	140.0	4.8	20.0
1,1,1,2-tetrachloroethane	5.0	ND	ND	20.5	NA	20.0	ND	22.0	20.9	20.0	102.5	NA	80.0	120.0	110.0	104.5	60.0	140.0	5.1	20.0
ethylbenzene	5.0	ND	ND	21.0	NA	20.0	ND	22.0	20.9	20.0	105.0	NA	77.0	119.0	110.0	104.5	60.0	140.0	5.1	20.0
m+p-xylene	5.0	ND	ND	42.0	NA	40.0	ND	44.0	41.6	40.0	105.0	NA	78.0	119.0	110.0	104.0	60.0	140.0	5.6	20.0
o-xylene	5.0	ND	ND	21.6	NA	20.0	ND	22.6	21.4	20.0	108.0	NA	78.0	119.0	113.0	107.0	60.0	140.0	5.5	20.0
styrene	5.0	ND	ND	21.5	NA	20.0	ND	21.9	20.8	20.0	107.5	NA	75.0	117.0	109.5	104.0	60.0	140.0	5.2	20.0
bromoform	5.0	ND	ND	20.4	NA	20.0	ND	20.4	18.6	20.0	102.0	NA	76.0	126.0	102.0	93.0	60.0	140.0	9.2	20.0
isopropylbenzene	5.0	ND	ND	21.7	NA	20.0	ND	22.3	20.8	20.0	108.5	NA	88.0	138.0	111.5	104.0	60.0	140.0	7.0	20.0
1,1,2,2-tetrachloroethane	5.0	ND	ND	21.8	NA	20.0	ND	23.2	20.9	20.0	109.0	NA	76.0	140.0	116.0	104.5	60.0	140.0	10.4	20.0
1,2,3-trichloropropane	5.0	ND	ND	21.3	NA	20.0	ND	22.5	20.5	20.0	106.5	NA	74.0	140.0	112.5	102.5	60.0	140.0	9.3	20.0
trans-1,4-dichloro-2-butene	5.0	ND	ND	NA	NA	20.0	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
propyl-benzene	5.0	ND	ND	21.4	NA	20.0	ND	22.0	20.3	20.0	107.0	NA	86.0	118.0	110.0	101.5	60.0	140.0	8.0	20.0
bromobenzene	5.0	ND	ND	21.0	NA	20.0	ND	21.5	20.1	20.0	105.0	NA	82.0	123.0	107.5	100.5	60.0	140.0	6.7	20.0
1,3,5-trimethylbenzene	5.0	ND	ND	21.6	NA	20.0	ND	22.4	20.5	20.0	108.0	NA	84.0	118.0	112.0	102.5	60.0	140.0	8.9	20.0
2-chlorotoluene	5.0	ND	ND	21.2	NA	20.0	ND	21.7	20.6	20.0	106.0	NA	83.0	122.0	108.5	103.0	60.0	140.0	5.2	20.0
4-chlorotoluene	5.0	ND	ND	21.2	NA	20.0	ND	21.8	19.8	20.0	106.0	NA	81.0	124.0	109.0	99.0	60.0	140.0	9.6	20.0
tert-butyl-benzene	5.0	ND	ND	21.0	NA	20.0	ND	21.3	19.7	20.0	105.0	NA	83.0	122.0	106.5	98.5	60.0	140.0	7.8	20.0
1,2,4-trimethylbenzene	5.0	ND	ND	21.4	NA	20.0	ND	21.9	20.3	20.0	107.0	NA	82.0	119.0	109.5	101.5	60.0	140.0	7.6	20.0
sec-butyl-benzene	5.0	ND	ND	21.4	NA	20.0	ND	21.1	19.1	20.0	107.0	NA	86.0	119.0	105.5	95.5	60.0	140.0	10.0	20.0

Notes and Definitions:

RDL= Reporting Detection Limit
BLK= Method Blank
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LCS2= Second Laboratory Control Sample
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MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
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RPD= Relative Percent Difference

ND= Not Detected
NA= Not Applicable

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG39219	Run Date:	4/14/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	04-215-01	SMPL DF:	1
Matrix:	SOIL	BLK FLNM:	6BK07071	SMPL FLNM:	6OH07072	MS DF:	1
Units:	ug/kg	BLK2 FLNM:	NA	MS FLNM:	6OH07073	MSD DF:	1
		LCS FLNM:	6QC07070	MSD FLNM:	6OH07074		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
p-isopropyl-toluene	5.0	ND	ND	20.8	NA	20.0	ND	20.4	18.5	20.0	104.0	NA	86.0	122.0	102.0	92.5	60.0	140.0	9.8	20.0
1,3-dichlorobenzene	5.0	ND	ND	20.8	NA	20.0	ND	20.3	18.7	20.0	104.0	NA	86.0	116.0	101.5	93.5	60.0	140.0	8.2	20.0
1,4-dichlorobenzene	5.0	ND	ND	20.4	NA	20.0	ND	19.8	18.3	20.0	102.0	NA	86.0	117.0	99.0	91.5	60.0	140.0	7.9	20.0
n-butyl-benzene	5.0	ND	ND	21.4	NA	20.0	ND	20.0	18.1	20.0	107.0	NA	83.0	122.0	100.0	90.5	60.0	140.0	10.0	20.0
1,2-dichlorobenzene	5.0	ND	ND	21.2	NA	20.0	ND	20.6	19.0	20.0	106.0	NA	84.0	118.0	103.0	95.0	60.0	140.0	8.1	20.0
,2-dibromo-3-chloropropan	5.0	ND	ND	22.5	NA	20.0	ND	21.8	19.2	20.0	112.5	NA	63.0	149.0	109.0	96.0	60.0	140.0	12.7	20.0
1,2,4-trichlorobenzene	5.0	ND	ND	21.1	NA	20.0	ND	17.5	15.9	20.0	105.5	NA	69.0	127.0	87.5	79.5	60.0	140.0	9.6	20.0
hexachlorobutadiene	5.0	ND	ND	20.4	NA	20.0	ND	16.6	14.7	20.0	102.0	NA	82.0	139.0	83.0	73.5	60.0	140.0	12.1	20.0
napthalene	10.0	ND	ND	22.1	NA	20.0	ND	18.3	17.0	20.0	110.5	NA	56.0	141.0	91.5	85.0	60.0	140.0	7.4	20.0
1,2,3-trichlorobenzene	5.0	ND	ND	21.1	NA	20.0	ND	17.0	15.6	20.0	105 5	NA	34.0	161.0	85.0	78.0	60.0	140.0	8.6	20.0

BLK2= Second Method Blank
LCS= Laboratory Control Sample
LCS2= Second Laboratory Control Sample
SMPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
RPD= Relative Percent Difference

ND= Not Detected
NA= Not Applicable
RDL= Reporting Detection Limit
BLK= Method Blank

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG39218	Run Date:	4/15/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS 2	SMPL Num:	04-073-03	SMPL DF:	1
Matrix:	Water	BLK FLNM:	2BK23686	SMPL FLNM:	2BF23690	MS DF:	1
Units:	ug/L	BLK2 FLNM:	NA	MS FLNM:	2BF23691	MSD DF:	1
		LCS FLNM:	2QC23685	MSD FLNM:	2BF23692		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	%	%	%	%	%	%	%	%	%	%
dichlorodifluoromethane	10.0	ND	ND	14.9	NA	20.0	ND	17.7	18.2	20.0	74.5	NA	24.0	181.0	88.5	91.0	60.0	140.0	2.8	20.0
chloromethane	10.0	ND	ND	17.6	NA	20.0	ND	15.4	17.2	20.0	88.0	NA	D	204.0	77.0	86.0	D	273.0	11.0	20.0
vinyl chloride	10.0	ND	ND	18.0	NA	20.0	ND	23.7	22.8	20.0	90.0	NA	4.0	196.0	118.5	114.0	D	251.0	3.9	20.0
bromomethane	10.0	ND	ND	18.9	NA	20.0	ND	18.0	18.5	20.0	94.5	NA	14.0	186.0	90.0	92.5	D	242.0	2.7	20.0
chloroethane	10.0	ND	ND	18.2	NA	20.0	ND	18.1	18.6	20.0	91.0	NA	38.0	162.0	90.5	93.0	14.0	230.0	2.7	20.0
trichlorofluoromethane	10.0	ND	ND	19.6	NA	20.0	ND	20.6	20.5	20.0	98.0	NA	48.0	152.0	103.0	102.5	17.0	181.0	0.5	20.0
freon 113	10.0	ND	ND	NA	NA	20.0	ND	NA	NA	20.0	NA	NA	NA	NA	NA	NA	70.0	130.0	NA	20.0
acetone	100.0	ND	ND	16.3	NA	20.0	ND	18.9	22.5	20.0	81.5	NA	50.0	150.0	94.5	112.5	50.0	150.0	17.4	20.0
1,1-dichloroethene	5.0	ND	ND	21.7	NA	20.0	ND	21.5	21.9	20.0	108.5	NA	51.0	150.0	107.5	109.5	D	234.0	1.8	20.0
iodomethane	10.0	ND	ND	NA	NA	20.0	ND	NA	NA	20.0	NA	NA	NA	NA	NA	NA	70.0	130.0	NA	20.0
methylene chloride	5.0	ND	ND	19.6	NA	20.0	ND	20.1	19.8	20.0	98.0	NA	61.0	140.0	100.5	99.0	D	221.0	1.5	20.0
carbon disulfide	5.0	ND	ND	26.5	NA	20.0	ND	24.4	26.3	20.0	132.5	NA	50.0	150.0	122.0	131.5	50.0	150.0	7.5	20.0
acrylonitrile	100.0	ND	ND	NA	NA	20.0	ND	NA	NA	20.0	NA	NA	NA	NA	NA	NA	70.0	130.0	NA	20.0
trans-1,2-dichloroethene	5.0	ND	ND	22.7	NA	20.0	ND	22.7	23.2	20.0	113.5	NA	70.0	131.0	113.5	116.0	54.0	156.0	2.2	20.0
vinyl acetate	10.0	ND	ND	14.0	NA	20.0	ND	13.0	14.0	20.0	70.0	NA	50.0	150.0	65.0	70.0	50.0	150.0	7.4	20.0
1,1-dichloroethane	5.0	ND	ND	21.7	NA	20.0	ND	24.0	24.5	20.0	108.5	NA	73.0	128.0	120.0	122.5	59.0	155.0	2.1	20.0
2-butanone	100.0	ND	ND	19.3	NA	20.0	ND	19.5	22.4	20.0	96.5	NA	50.0	150.0	97.5	112.0	50.0	150.0	13.8	20.0
2,2-dichloropropane	5.0	ND	ND	19.9	NA	20.0	ND	19.9	20.0	20.0	99.5	NA	72.0	123.0	99.5	100.0	60.0	140.0	0.5	20.0
cis-1,2-dichloroethene	5.0	ND	ND	19.7	NA	20.0	ND	20.7	21.0	20.0	98.5	NA	82.0	118.0	103.5	105.0	60.0	140.0	1.4	20.0
chloroform	5.0	ND	ND	20.3	NA	20.0	ND	21.2	21.4	20.0	101.5	NA	68.0	133.0	106.0	107.0	51.0	138.0	0.9	20.0

Notes and Definitions:

RDL = Reporting Detection Limit
BLK = Method Blank
BLK2 = Second Method Blank
LCS = Laboratory Control Sample
LCS2 = Second Laboratory Control Sample
SMPL = Sample Results
MS/MSD = Matrix Spike / Matrix Spike Duplicate
LCL = Lower Control Limit
UCL = Upper Control Limit
RPD = Relative Percent Difference

ND = Not Detected
NA = Not Applicable

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG39218	Run Date:	4/15/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_2	SMPL Num:	04-073-03	SMPL DF:	1
Matrix:	Water	BLK FLNM:	2BK23686	SMPL FLNM:	2BF23690	MS DF:	1
Units:	ug/L	BLK2 FLNM:	NA	MS FLNM:	2BF23691	MSD DF:	1
		LCS FLNM:	2QC23685	MSD FLNM:	2BF23692		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
	RDL	BLK	BLK2	LCS	LCS2	LCS Spike Level	SMPL	MS	MSD	MS Spike Level	LCS	LCS2	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	MS RPD	RPD UCL
Target Analytes	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	%	%	%	%	%	%	%	%	%	%
bromochloromethane	5.0	ND	ND	19.4	NA	20.0	ND	20.3	19.6	20.0	97.0	NA	80.0	120.0	101.5	98.0	60.0	140.0	3.5	20.0
1,1,1-trichloroethane	5.0	ND	ND	20.3	NA	20.0	ND	21.7	22.0	20.0	101.5	NA	75.0	125.0	108.5	110.0	52.0	162.0	1.4	20.0
1,1-dichloropropene	5.0	ND	ND	23.4	NA	20.0	ND	23.0	23.8	20.0	117.0	NA	80.0	120.0	115.0	119.0	60.0	140.0	3.4	20.0
carbon tetrachloride	5.0	ND	ND	20.3	NA	20.0	ND	21.2	21.6	20.0	101.5	NA	73.0	127.0	106.0	108.0	70.0	140.0	1.9	20.0
1,2-dichloroethane	5.0	ND	ND	20.4	NA	20.0	ND	21.6	21.6	20.0	102.0	NA	68.0	132.0	108.0	108.0	49.0	155.0	0.0	20.0
benzene	5.0	ND	ND	20.4	NA	20.0	ND	20.8	21.3	20.0	102.0	NA	64.0	136.0	104.0	106.5	37.0	151.0	2.4	20.0
trichloroethene	5.0	ND	ND	19.6	NA	20.0	ND	20.1	20.5	20.0	98.0	NA	67.0	134.0	100.5	102.5	71.0	157.0	2.0	20.0
1,2-dichloropropane	5.0	ND	ND	21.1	NA	20.0	ND	20.9	21.4	20.0	105.5	NA	34.0	166.0	104.5	107.0	D	210.0	2.4	20.0
bromodichloromethane	5.0	ND	ND	20.5	NA	20.0	ND	21.6	22.1	20.0	102.5	NA	66.0	135.0	108.0	110.5	35.0	155.0	2.3	20.0
dibromomethane	5.0	ND	ND	19.8	NA	20.0	ND	21.1	21.7	20.0	99.0	NA	60.0	120.0	105.5	108.5	60.0	140.0	2.8	20.0
2-chloroethylvinyl-ether	5.0	ND	ND	33.9	NA	20.0	ND	0.0	0.0	20.0	169.5	NA	50.0	150.0	0.0	0.0	50.0	150.0	#DIV/0!	20.0
4-methyl-2-pentanone	10.0	ND	ND	20.3	NA	20.0	ND	19.8	22.4	20.0	101.5	NA	50.0	150.0	99.0	112.0	50.0	150.0	12.3	20.0
cis-1,3-dichloropropene	5.0	ND	ND	21.2	NA	20.0	ND	21.6	21.7	20.0	106.0	NA	24.0	176.0	108.0	108.5	D	227.0	0.5	20.0
toluene	5.0	ND	ND	20.6	NA	20.0	ND	20.7	21.1	20.0	102.5	NA	75.0	126.0	103.5	106.5	47.0	150.0	1.9	20.0
trans-1,3-dichloropropene	5.0	ND	ND	20.6	NA	20.0	ND	21.1	21.6	20.0	103.0	NA	50.0	150.0	105.5	108.0	17.0	183.0	2.3	20.0
1,1,2-trichloroethane	5.0	ND	ND	20.3	NA	20.0	ND	21.4	22.2	20.0	101.5	NA	71.0	129.0	107.0	111.0	52.0	150.0	3.7	20.0
2-hexanone	10.0	ND	ND	20.5	NA	20.0	ND	20.4	23.5	20.0	102.5	NA	50.0	150.0	102.0	117.5	50.0	150.0	14.1	20.0
1,3-dichloropropane	5.0	ND	ND	20.4	NA	20.0	ND	21.3	22.4	20.0	102.0	NA	70.0	130.0	106.5	112.0	60.0	140.0	5.0	20.0
tetrachloroethene	5.0	ND	ND	19.8	NA	20.0	ND	19.8	20.5	20.0	99.0	NA	74.0	127.0	99.0	102.5	64.0	148.0	3.5	20.0
dibromochloromethane	5.0	ND	ND	19.6	NA	20.0	ND	20.6	21.0	20.0	98.0	NA	68.0	133.0	103.0	105.0	53.0	149.0	1.9	20.0

Notes and Definitions:

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KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG39218	Run Date:	4/15/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_2	SMPL Num:	04-073-03	SMPL DF:	1
Matrix:	Water	BLK FLNM:	2BK23686	SMPL FLNM:	2BF23690	MS DF:	1
Units:	ug/L	BLK2 FLNM:	NA	MS FLNM:	2BF23691	MSD DF:	1
		LCS FLNM:	2QC23685	MSD FLNM:	2BF23692		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	%	%	%	%	%	%	%	%	%	%
1,2-dibromoethane	5.0	ND	ND	20.2	NA	20.0	ND	21.4	22.3	20.0	101.0	NA	77.0	123.0	107.0	111.5	60.0	140.0	4.1	20.0
chlorobenzene	5.0	ND	ND	20.0	NA	20.0	ND	20.9	20.8	20.0	100.0	NA	66.0	134.0	104.5	104.0	37.0	160.0	0.5	20.0
1,1,1,2-tetrachloroethane	5.0	ND	ND	20.0	NA	20.0	ND	20.6	21.2	20.0	100.0	NA	75.0	121.0	103.0	106.0	60.0	140.0	2.9	20.0
ethylbenzene	5.0	ND	ND	20.8	NA	20.0	ND	21.3	21.1	20.0	104.0	NA	59.0	141.0	106.5	105.5	37.0	162.0	0.9	20.0
m+p-xylene	5.0	ND	ND	41.1	NA	40.0	ND	42.5	41.9	40.0	102.8	NA	76.0	121.0	106.3	104.8	60.0	140.0	1.4	20.0
o-xylene	5.0	ND	ND	20.7	NA	20.0	ND	21.3	21.3	20.0	103.5	NA	78.0	119.0	106.5	106.5	60.0	140.0	0.0	20.0
styrene	5.0	ND	ND	20.5	NA	20.0	ND	21.4	21.1	20.0	102.5	NA	76.0	119.0	107.0	105.5	60.0	140.0	1.4	20.0
bromoform	5.0	ND	ND	18.5	NA	20.0	ND	19.8	20.8	20.0	92.5	NA	71.0	129.0	99.0	104.0	45.0	169.0	4.9	20.0
isopropylbenzene	5.0	ND	ND	20.5	NA	20.0	ND	21.4	21.6	20.0	102.5	NA	70.0	130.0	107.0	108.0	60.0	140.0	0.9	20.0
1,1,2,2-tetrachloroethane	5.0	ND	ND	20.5	NA	20.0	ND	21.5	22.6	20.0	102.5	NA	61.0	140.0	107.5	113.0	46.0	157.0	5.0	20.0
1,2,3-trichloropropane	5.0	ND	ND	20.5	NA	20.0	ND	21.3	22.5	20.0	102.5	NA	78.0	130.0	106.5	112.5	60.0	140.0	5.5	20.0
trans-1,4-dichloro-2-butene	5.0	ND	ND	NA	NA	20.0	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
propyl-benzene	5.0	ND	ND	19.9	NA	20.0	ND	20.1	20.9	20.0	99.5	NA	70.0	128.0	100.5	104.5	60.0	140.0	3.9	20.0
bromobenzene	5.0	ND	ND	19.7	NA	20.0	ND	19.4	19.8	20.0	98.5	NA	77.0	128.0	97.0	99.0	60.0	140.0	2.0	20.0
1,3,5-trimethylbenzene	5.0	ND	ND	20.0	NA	20.0	ND	20.1	20.6	20.0	100.0	NA	81.0	118.0	100.5	103.0	60.0	140.0	2.5	20.0
2-chlorotoluene	5.0	ND	ND	21.6	NA	20.0	ND	21.3	21.5	20.0	108.0	NA	82.0	126.0	106.5	107.5	60.0	140.0	0.9	20.0
4-chlorotoluene	5.0	ND	ND	18.7	NA	20.0	ND	19.0	20.3	20.0	93.5	NA	74.0	125.0	95.0	101.5	60.0	140.0	6.6	20.0
tert-butyl-benzene	5.0	ND	ND	19.6	NA	20.0	ND	19.6	20.6	20.0	98.0	NA	81.0	122.0	98.0	103.0	60.0	140.0	5.0	20.0
1,2,4-trimethylbenzene	5.0	ND	ND	20.3	NA	20.0	ND	20.3	21.0	20.0	101.5	NA	80.0	118.0	101.5	105.0	60.0	140.0	3.4	20.0
sec-butyl-benzene	5.0	ND	ND	19.6	NA	20.0	ND	19.9	20.7	20.0	98.0	NA	83.0	122.0	99.5	103.5	60.0	140.0	3.9	20.0

Notes and Definitions:

RDL = Reporting Detection Limit
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MS/MSD = Matrix Spike / Matrix Spike Duplicate
LCL = Lower Control Limit
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RPD = Relative Percent Difference

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KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG39218	Run Date:	4/15/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_2	SMPL Num:	04-073-03	SMPL DF:	1
Matrix:	Water	BLK FLNM:	2BK23686	SMPL FLNM:	2BF23690	MS DF:	1
Units:	ug/L	BLK2 FLNM:	NA	MS FLNM:	2BF23691	MSD DF:	1
		LCS FLNM:	2QC23685	MSD FLNM:	2BF23692		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	%	%	%	%	%	%	%	%	%	%
p-isopropyl-toluene	5.0	ND	ND	18.9	NA	20.0	ND	19.3	20.1	20.0	94.5	NA	85.0	122.0	96.5	100.5	60.0	140.0	4.1	20.0
1,3-dichlorobenzene	5.0	ND	ND	19.9	NA	20.0	ND	19.7	20.4	20.0	99.5	NA	73.0	127.0	98.5	102.0	60.0	140.0	3.5	20.0
1,4-dichlorobenzene	5.0	ND	ND	20.0	NA	20.0	ND	20.1	20.7	20.0	100.0	NA	63.0	137.0	100.5	103.5	18.0	190.0	2.9	20.0
n-butyl-benzene	5.0	ND	ND	19.5	NA	20.0	ND	20.4	21.4	20.0	97.5	NA	70.0	130.0	102.0	107.0	60.0	140.0	4.8	20.0
1,2-dichlorobenzene	5.0	ND	ND	19.8	NA	20.0	ND	20.4	20.8	20.0	99.0	NA	63.0	137.0	102.0	104.0	19.0	190.0	1.9	20.0
1,2-dibromo-3-chloropropane	5.0	ND	ND	18.8	NA	20.0	ND	20.5	23.4	20.0	94.0	NA	71.0	128.0	102.5	117.0	60.0	140.0	13.2	20.0
1,2,4-trichlorobenzene	5.0	ND	ND	19.1	NA	20.0	ND	19.5	20.3	20.0	95.5	NA	60.0	124.0	97.5	101.5	60.0	140.0	4.0	20.0
hexachlorobutadiene	5.0	ND	ND	17.3	NA	20.0	ND	19.2	19.6	20.0	86.5	NA	70.0	130.0	96.0	98.0	60.0	140.0	2.1	20.0
napthalene	10.0	ND	ND	19.7	NA	20.0	ND	20.5	22.1	20.0	98.5	NA	70.0	161.0	102.5	110.5	60.0	140.0	7.5	20.0
1,2,3-trichlorobenzene	5.0	ND	ND	18.9	NA	20.0	ND	19.7	19.9	20.0	94.5	NA	26.0	171.0	98.5	99.5	60.0	140.0	1.0	20.0

BLK2 = Second Method Blank
LCS = Laboratory Control Sample
LCS2 = Second Laboratory Control Sample
SMPL = Sample Results
MS/MSD = Matrix Spike / Matrix Spike Duplicate
LCL = Lower Control Limit
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RPD = Relative Percent Difference

ND = Not Detected
NA = Not Applicable
RDL = Reporting Detection Limit
BLK = Method Blank

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG39221	Run Date:	4/15/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	04-188-11	SMPL DF:	1
Matrix:	SOIL	BLK FLNM:	6BK07093	SMPL FLNM:	6CU07096	MS DF:	1
Units:	ug/kg	BLK2 FLNM:	NA	MS FLNM:	6CU07097	MSD DF:	1
		LCS FLNM:	6QC07092	MSD FLNM:	6CU07098		

6CU07096

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
dichlorodifluoromethane	10.0	ND	ND	16.5	NA	20.0	ND	15.5	16.3	20.0	82.5	NA	22.0	167.0	77.5	81.5	60.0	140.0	5.0	20.0
chloromethane	10.0	ND	ND	17.3	NA	20.0	ND	16.9	17.5	20.0	86.5	NA	47.0	144.0	84.5	87.5	60.0	140.0	3.5	20.0
vinyl chloride	10.0	ND	ND	16.6	NA	20.0	ND	16.3	16.8	20.0	83.0	NA	56.0	142.0	81.5	84.0	60.0	140.0	3.0	20.0
bromomethane	10.0	ND	ND	20.1	NA	20.0	ND	19.9	19.8	20.0	100.5	NA	31.0	167.0	99.5	99.0	60.0	140.0	0.5	20.0
chloroethane	10.0	ND	ND	17.4	NA	20.0	ND	17.1	17.4	20.0	87.0	NA	41.0	156.0	85.5	87.0	60.0	140.0	1.7	20.0
trichlorofluoromethane	10.0	ND	ND	21.5	NA	20.0	ND	21.1	21.5	20.0	107.5	NA	66.0	127.0	105.5	107.5	60.0	140.0	1.9	20.0
freon 113	10.0	ND	ND	NA	NA	20.0	ND	NA	NA	20.0	NA	NA	NA	NA	NA	NA	60.0	140.0	NA	20.0
acetone	100.0	ND	ND	11.4	NA	20.0	ND	14.6	14.4	20.0	57.0	NA	NA	NA	73.0	72.0	60.0	140.0	1.4	20.0
1,1-dichloroethene	5.0	ND	ND	22.8	NA	20.0	ND	20.9	21.7	20.0	114.0	NA	67.0	130.0	104.5	108.5	60.0	140.0	3.8	20.0
iodomethane	10.0	ND	ND	NA	NA	20.0	ND	NA	NA	20.0	NA	NA	NA	NA	NA	NA	60.0	140.0	NA	20.0
methylene chloride	5.0	ND	ND	20.1	NA	20.0	ND	20.4	21.2	20.0	100.5	NA	77.0	128.0	102.0	106.0	60.0	140.0	3.8	20.0
carbon disulfide	5.0	ND	ND	23.0	NA	20.0	ND	23.2	23.7	20.0	115.0	NA	NA	NA	116.0	118.5	60.0	140.0	2.1	20.0
acrylonitrile	100.0	ND	ND	NA	NA	20.0	ND	NA	NA	20.0	NA	NA	NA	NA	NA	NA	60.0	140.0	NA	20.0
trans-1,2-dichloroethene	5.0	ND	ND	23.6	NA	20.0	ND	21.9	22.8	20.0	118.0	NA	79.0	122.0	109.5	114.0	60.0	140.0	4.0	20.0
vinyl acetate	10.0	ND	ND	14.0	NA	20.0	ND	7.7	5.3	20.0	70.0	NA	NA	NA	38.5	26.7	60.0	140.0	36.2	20.0
1,1-dichloroethane	5.0	ND	ND	21.2	NA	20.0	2.4	20.4	21.0	20.0	106.0	NA	84.0	115.0	90.2	93.2	60.0	140.0	2.9	20.0
2-butanone	100.0	ND	ND	13.2	NA	20.0	ND	14.4	14.3	20.0	66.0	NA	NA	NA	72.0	71.5	60.0	140.0	0.7	20.0
2,2-dichloropropane	5.0	ND	ND	20.9	NA	20.0	ND	19.3	19.6	20.0	104.5	NA	82.0	114.0	96.5	98.0	60.0	140.0	1.5	20.0
cis-1,2-dichloroethene	5.0	ND	ND	21.3	NA	20.0	101.0	25.8	26.1	20.0	106.5	NA	84.0	120.0	0.0	0.0	60.0	140.0	1.2	20.0
chloroform	5.0	ND	ND	20.2	NA	20.0	ND	19.4	20.2	20.0	101.0	NA	85.0	116.0	97.0	101.0	60.0	140.0	4.0	20.0

Notes and Definitions:

RDL= Reporting Detection Limit
BLK= Method Blank
BLK2= Second Method Blank
LCS= Laboratory Control Sample
LCS2= Second Laboratory Control Sample
SMPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
RPD= Relative Percent Difference

ND= Not Detected
NA= Not Applicable

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG39221	Run Date:	4/15/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	04-188-11	SMPL DF:	1
Matrix:	SOIL	BLK FLNM:	6BK07093	SMPL FLNM:	6CU07096	MS DF:	1
Units:	ug/kg	BLK2 FLNM:	NA	MS FLNM:	6CU07097	MSD DF:	1
		LCS FLNM:	6QC07092	MSD FLNM:	6CU07098		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
bromochloromethane	5.0	ND	ND	21.0	NA	20.0	ND	19.7	20.4	20.0	105.0	NA	83.0	117.0	98.5	102.0	60.0	140.0	3.5	20.0
1,1,1-trichloroethane	5.0	ND	ND	20.4	NA	20.0	14.4	20.7	21.3	20.0	102.0	NA	84.0	112.0	31.5	34.5	60.0	140.0	2.9	20.0
1,1-dichloropropene	5.0	ND	ND	23.5	NA	20.0	ND	19.5	20.1	20.0	117.5	NA	92.0	119.0	97.5	100.5	60.0	140.0	3.0	20.0
carbon tetrachloride	5.0	ND	ND	20.3	NA	20.0	ND	17.9	18.4	20.0	101.5	NA	85.0	111.0	89.5	92.0	60.0	140.0	2.8	20.0
1,2-dichloroethane	5.0	ND	ND	19.1	NA	20.0	ND	19.0	19.3	20.0	95.5	NA	87.0	118.0	95.0	96.5	60.0	140.0	1.6	20.0
benzene	5.0	ND	ND	21.5	NA	20.0	ND	19.2	19.8	20.0	107.5	NA	88.0	112.0	96.0	99.0	60.0	140.0	3.1	20.0
trichloroethene	5.0	ND	ND	21.0	NA	20.0	721.0	149.0	136.0	20.0	105.0	NA	87.0	119.0	0.0	0.0	60.0	140.0	9.1	20.0
1,2-dichloropropane	5.0	ND	ND	21.1	NA	20.0	ND	19.4	20.0	20.0	105.5	NA	94.0	121.0	97.0	100.0	60.0	140.0	3.0	20.0
bromodichloromethane	5.0	ND	ND	20.5	NA	20.0	ND	19.0	19.7	20.0	102.5	NA	88.0	116.0	95.0	98.5	60.0	140.0	3.6	20.0
dibromomethane	5.0	ND	ND	19.8	NA	20.0	ND	18.8	19.3	20.0	99.0	NA	85.0	118.0	94.0	96.5	60.0	140.0	2.8	20.0
2-chloroethylvinyl-ether	5.0	ND	ND	25.2	NA	20.0	ND	25.8	25.2	20.0	126.0	NA	NA	NA	129.0	126.0	60.0	140.0	2.4	20.0
4-methyl-2-pentanone	10.0	ND	ND	19.8	NA	20.0	ND	21.4	21.6	20.0	99.0	NA	NA	NA	107.0	108.0	60.0	140.0	0.9	20.0
cis-1,3-dichloropropene	5.0	ND	ND	22.3	NA	20.0	ND	19.6	20.2	20.0	111.5	NA	86.0	121.0	98.0	101.0	60.0	140.0	3.0	20.0
toluene	5.0	ND	ND	19.8	NA	20.0	ND	18.4	18.5	20.0	99.0	NA	84.0	113.0	92.0	92.5	60.0	140.0	0.5	20.0
trans-1,3-dichloropropene	5.0	ND	ND	20.9	NA	20.0	ND	18.3	18.8	20.0	104.5	NA	82.0	122.0	91.5	94.0	60.0	140.0	2.7	20.0
1,1,2-trichloroethane	5.0	ND	ND	20.6	NA	20.0	ND	19.3	19.6	20.0	103.0	NA	86.0	124.0	96.5	98.0	60.0	140.0	1.5	20.0
2-hexanone	10.0	ND	ND	14.5	NA	20.0	ND	15.5	15.3	20.0	72.5	NA	NA	NA	77.5	76.5	60.0	140.0	1.3	20.0
1,3-dichloropropane	5.0	ND	ND	20.8	NA	20.0	ND	18.8	19.2	20.0	104.0	NA	80.0	122.0	94.0	96.0	60.0	140.0	2.1	20.0
tetrachloroethene	5.0	ND	ND	22.3	NA	20.0	58.8	60.7	56.2	20.0	111.5	NA	79.0	114.0	0.0	0.0	60.0	140.0	7.7	20.0
dibromochloromethane	5.0	ND	ND	20.6	NA	20.0	ND	18.3	18.5	20.0	103.0	NA	77.0	119.0	91.5	92.5	60.0	140.0	1.1	20.0

Notes and Definitions:

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KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG39221	Run Date:	4/15/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	04-188-11	SMPL DF:	1
Matrix:	SOIL	BLK FLNM:	6BK07093	SMPL FLNM:	6CU07096	MS DF:	1
Units:	ug/kg	BLK2 FLNM:	NA	MS FLNM:	6CU07097	MSD DF:	1
		LCS FLNM:	6QC07092	MSD FLNM:	6CU07098		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
1,2-dibromoethane	5.0	ND	ND	20.8	NA	20.0	ND	18.6	19.0	20.0	104.0	NA	76.0	123.0	93.0	95.0	60.0	140.0	2.1	20.0
chlorobenzene	5.0	ND	ND	21.3	NA	20.0	ND	16.8	17.3	20.0	106.5	NA	80.0	116.0	84.0	86.5	60.0	140.0	2.9	20.0
1,1,1,2-tetrachloroethane	5.0	ND	ND	20.7	NA	20.0	ND	17.7	17.9	20.0	103.5	NA	80.0	120.0	88.5	89.5	60.0	140.0	1.1	20.0
ethylbenzene	5.0	ND	ND	21.9	NA	20.0	ND	17.2	17.7	20.0	109.5	NA	77.0	119.0	86.0	88.5	60.0	140.0	2.9	20.0
m+p-xylene	5.0	ND	ND	43.5	NA	40.0	ND	34.7	35.4	40.0	108.8	NA	78.0	119.0	86.8	88.5	60.0	140.0	2.0	20.0
o-xylene	5.0	ND	ND	22.3	NA	20.0	ND	18.0	18.1	20.0	111.5	NA	78.0	119.0	90.0	90.5	60.0	140.0	0.8	20.0
styrene	5.0	ND	ND	22.0	NA	20.0	ND	17.1	17.4	20.0	110.0	NA	75.0	117.0	85.5	87.0	60.0	140.0	1.7	20.0
bromoform	5.0	ND	ND	19.4	NA	20.0	ND	16.3	16.5	20.0	97.0	NA	76.0	126.0	81.5	82.5	60.0	140.0	1.2	20.0
isopropylbenzene	5.0	ND	ND	22.5	NA	20.0	ND	16.7	17.1	20.0	112.5	NA	88.0	138.0	83.5	85.5	60.0	140.0	2.4	20.0
1,1,2,2-tetrachloroethane	5.0	ND	ND	20.4	NA	20.0	ND	18.0	18.3	20.0	102.0	NA	76.0	140.0	90.0	91.5	60.0	140.0	1.7	20.0
1,2,3-trichloropropane	5.0	ND	ND	20.4	NA	20.0	ND	17.9	18.0	20.0	102.0	NA	74.0	140.0	89.5	90.0	60.0	140.0	0.6	20.0
trans-1,4-dichloro-2-butene	5.0	ND	ND	NA	NA	20.0	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
propyl-benzene	5.0	ND	ND	22.4	NA	20.0	ND	15.7	16.1	20.0	112.0	NA	86.0	118.0	78.5	80.5	60.0	140.0	2.5	20.0
bromobenzene	5.0	ND	ND	21.5	NA	20.0	ND	16.0	16.4	20.0	107.5	NA	82.0	123.0	80.0	82.0	60.0	140.0	2.5	20.0
1,3,5-trimethylbenzene	5.0	ND	ND	22.6	NA	20.0	ND	16.4	16.7	20.0	113.0	NA	84.0	118.0	82.0	83.5	60.0	140.0	1.8	20.0
2-chlorotoluene	5.0	ND	ND	22.2	NA	20.0	ND	15.8	16.2	20.0	111.0	NA	83.0	122.0	79.0	81.0	60.0	140.0	2.5	20.0
4-chlorotoluene	5.0	ND	ND	21.5	NA	20.0	ND	15.5	15.8	20.0	107.5	NA	81.0	124.0	77.5	79.0	60.0	140.0	1.9	20.0
tert-butyl-benzene	5.0	ND	ND	21.7	NA	20.0	ND	15.5	16.0	20.0	108.5	NA	83.0	122.0	77.5	80.0	60.0	140.0	3.2	20.0
1,2,4-trimethylbenzene	5.0	ND	ND	22.0	NA	20.0	ND	16.1	16.4	20.0	110.0	NA	82.0	119.0	80.5	82.0	60.0	140.0	1.8	20.0
sec-butyl-benzene	5.0	ND	ND	22.4	NA	20.0	ND	14.7	15.1	20.0	112.0	NA	86.0	119.0	73.5	75.5	60.0	140.0	2.7	20.0

Notes and Definitions:

RDL= Reporting Detection Limit
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LCL= Lower Control Limit
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RPD= Relative Percent Difference

ND= Not Detected
NA= Not Applicable

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG39221	Run Date:	4/15/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	04-188-11	SMPL DF:	1
Matrix:	SOIL	BLK FLNM:	6BK07093	SMPL FLNM:	6CU07096	MS DF:	1
Units:	ug/kg	BLK2 FLNM:	NA	MS FLNM:	6CU07097	MSD DF:	1
		LCS FLNM:	6QC07092	MSD FLNM:	6CU07098		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
p-isopropyl-toluene	5.0	ND	ND	21.7	NA	20.0	ND	14.4	14.6	20.0	108.5	NA	86.0	122.0	72.0	73.0	60.0	140.0	1.4	20.0
1,3-dichlorobenzene	5.0	ND	ND	21.4	NA	20.0	ND	14.2	14.4	20.0	107.0	NA	86.0	116.0	71.0	72.0	60.0	140.0	1.4	20.0
1,4-dichlorobenzene	5.0	ND	ND	20.8	NA	20.0	ND	14.0	14.2	20.0	104.0	NA	86.0	117.0	70.0	71.0	60.0	140.0	1.4	20.0
n-butyl-benzene	5.0	ND	ND	22.1	NA	20.0	ND	13.3	13.4	20.0	110.5	NA	83.0	122.0	66.5	67.0	60.0	140.0	0.7	20.0
1,2-dichlorobenzene	5.0	ND	ND	21.4	NA	20.0	ND	14.5	14.6	20.0	107.0	NA	84.0	118.0	72.5	73.0	60.0	140.0	0.7	20.0
1,2-dibromo-3-chloropropane	5.0	ND	ND	19.9	NA	20.0	ND	16.1	15.6	20.0	99.5	NA	63.0	149.0	80.5	78.0	60.0	140.0	3.2	20.0
1,2,4-trichlorobenzene	5.0	ND	ND	20.9	NA	20.0	ND	11.3	11.0	20.0	104.5	NA	69.0	127.0	56.5	55.0	60.0	140.0	2.7	20.0
hexachlorobutadiene	5.0	ND	ND	20.9	NA	20.0	ND	10.8	10.9	20.0	104.5	NA	82.0	139.0	54.0	54.5	60.0	140.0	0.9	20.0
napthalene	10.0	ND	ND	20.3	NA	20.0	ND	13.1	12.9	20.0	101.5	NA	56.0	141.0	65.5	64.5	60.0	140.0	1.5	20.0
1,2,3-trichlorobenzene	5.0	ND	ND	20.3	NA	20.0	ND	11.3	10.9	20.0	101.5	NA	34.0	161.0	56.5	54.5	60.0	140.0	3.6	20.0

BLK2= Second Method Blank
LCS= Laboratory Control Sample
LCS2= Second Laboratory Control Sample
SMPL= Sample Results
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LCL= Lower Control Limit
UCL= Upper Control Limit
RPD= Relative Percent Difference

ND= Not Detected
NA= Not Applicable
RDL= Reporting Detection Limit
BLK= Method Blank

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG39333	Run Date:	4/16/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	04-188-11	SMPL DF:	5
Matrix:	SOIL	BLK FLNM:	6BK07115	SMPL FLNM:	6CU07116	MS DF:	5
Units:	ug/kg	BLK2 FLNM:	NA	MS FLNM:	6CU07117	MSD DF:	5
		LCS FLNM:	6QC07113	MSD FLNM:	6CU07118		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
dichlorodifluoromethane	10.0	ND	ND	17.9	NA	20.0	ND	17.7	16.7	20.0	89.5	NA	22.0	167.0	88.5	83.5	60.0	140.0	5.8	20.0
chloromethane	10.0	ND	ND	19.2	NA	20.0	ND	19.4	18.5	20.0	96.0	NA	47.0	144.0	97.0	92.5	60.0	140.0	4.7	20.0
vinyl chloride	10.0	ND	ND	18.1	NA	20.0	ND	19.0	17.6	20.0	90.5	NA	56.0	142.0	95.0	88.0	60.0	140.0	7.7	20.0
bromomethane	10.0	ND	ND	23.3	NA	20.0	ND	25.2	22.7	20.0	116.5	NA	31.0	167.0	126.0	113.5	60.0	140.0	10.4	20.0
chloroethane	10.0	ND	ND	19.3	NA	20.0	ND	19.8	18.7	20.0	96.5	NA	41.0	156.0	99.0	93.5	60.0	140.0	5.7	20.0
trichlorofluoromethane	10.0	ND	ND	23.7	NA	20.0	ND	24.3	22.7	20.0	118.5	NA	66.0	127.0	121.5	113.5	60.0	140.0	6.8	20.0
freon 113	10.0	ND	ND	NA	NA	20.0	ND	NA	NA	20.0	NA	NA	NA	NA	NA	NA	60.0	140.0	NA	20.0
acetone	100.0	ND	ND	12.9	NA	20.0	ND	11.5	12.2	20.0	64.5	NA	NA	NA	57.5	61.0	60.0	140.0	5.9	20.0
1,1-dichloroethene	5.0	ND	ND	23.1	NA	20.0	ND	22.1	20.9	20.0	115.5	NA	67.0	130.0	110.5	104.5	60.0	140.0	5.6	20.0
iodomethane	10.0	ND	ND	NA	NA	20.0	ND	NA	NA	20.0	NA	NA	NA	NA	NA	NA	60.0	140.0	NA	20.0
methylene chloride	5.0	ND	ND	21.1	NA	20.0	ND	20.6	20.3	20.0	105.5	NA	77.0	128.0	103.0	101.5	60.0	140.0	1.5	20.0
carbon disulfide	5.0	ND	ND	25.7	NA	20.0	ND	25.5	23.9	20.0	128.5	NA	NA	NA	127.5	119.5	60.0	140.0	6.5	20.0
acrylonitrile	100.0	ND	ND	NA	NA	20.0	ND	NA	NA	20.0	NA	NA	NA	NA	NA	NA	60.0	140.0	NA	20.0
trans-1,2-dichloroethene	5.0	ND	ND	24.0	NA	20.0	ND	22.8	22.4	20.0	120.0	NA	79.0	122.0	114.0	112.0	60.0	140.0	1.8	20.0
vinyl acetate	10.0	ND	ND	16.3	NA	20.0	ND	11.2	9.5	20.0	81.5	NA	NA	NA	56.0	47.6	60.0	140.0	16.3	20.0
1,1-dichloroethane	5.0	ND	ND	22.1	NA	20.0	ND	22.2	21.5	20.0	110.5	NA	84.0	115.0	111.0	107.5	60.0	140.0	3.2	20.0
2-butanone	100.0	ND	ND	17.0	NA	20.0	ND	13.3	14.2	20.0	85.0	NA	NA	NA	66.5	71.0	60.0	140.0	6.5	20.0
2,2-dichloropropane	5.0	ND	ND	21.8	NA	20.0	ND	21.3	20.4	20.0	109.0	NA	82.0	114.0	106.5	102.0	60.0	140.0	4.3	20.0
cis-1,2-dichloroethene	5.0	ND	ND	21.6	NA	20.0	10.1	21.3	21.0	20.0	108.0	NA	84.0	120.0	0.0	0.0	60.0	140.0	1.4	20.0
chloroform	5.0	ND	ND	21.3	NA	20.0	ND	21.6	20.7	20.0	106.5	NA	85.0	116.0	108.0	103.5	60.0	140.0	4.3	20.0

Notes and Definitions:

RDL= Reporting Detection Limit
BLK= Method Blank
BLK2= Second Method Blank
LCS= Laboratory Control Sample
LCS2= Second Laboratory Control Sample
SMPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
RPD= Relative Percent Difference

ND= Not Detected
NA= Not Applicable

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG39333	Run Date:	4/16/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	04-188-11	SMPL DF:	5
Matrix:	SOIL	BLK FLNM:	6BK07115	SMPL FLNM:	6CU07116	MS DF:	5
Units:	ug/kg	BLK2 FLNM:	NA	MS FLNM:	6CU07117	MSD DF:	5
		LCS FLNM:	6QC07113	MSD FLNM:	6CU07118		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
bromochloromethane	5.0	ND	ND	21.7	NA	20.0	ND	20.9	20.5	20.0	108.5	NA	83.0	117.0	104.5	102.5	60.0	140.0	1.9	20.0
1,1,1-trichloroethane	5.0	ND	ND	21.7	NA	20.0	ND	21.8	20.8	20.0	108.5	NA	84.0	112.0	109.0	104.0	60.0	140.0	4.7	20.0
1,1-dichloropropene	5.0	ND	ND	23.7	NA	20.0	ND	22.5	21.3	20.0	118.5	NA	92.0	119.0	112.5	106.5	60.0	140.0	5.5	20.0
carbon tetrachloride	5.0	ND	ND	21.7	NA	20.0	ND	21.7	20.3	20.0	108.5	NA	85.0	111.0	108.5	101.5	60.0	140.0	6.7	20.0
1,2-dichloroethane	5.0	ND	ND	21.3	NA	20.0	ND	21.3	20.9	20.0	106.5	NA	87.0	118.0	106.5	104.5	60.0	140.0	1.9	20.0
benzene	5.0	ND	ND	21.8	NA	20.0	ND	21.4	20.6	20.0	109.0	NA	88.0	112.0	107.0	103.0	60.0	140.0	3.8	20.0
trichloroethene	5.0	ND	ND	20.5	NA	20.0	83.5	29.3	35.7	20.0	102.5	NA	87.0	119.0	0.0	0.0	60.0	140.0	19.7	20.0
1,2-dichloropropane	5.0	ND	ND	21.5	NA	20.0	ND	21.1	20.6	20.0	107.5	NA	94.0	121.0	105.5	103.0	60.0	140.0	2.4	20.0
bromodichloromethane	5.0	ND	ND	21.8	NA	20.0	ND	21.7	21.1	20.0	109.0	NA	88.0	116.0	108.5	105.5	60.0	140.0	2.8	20.0
dibromomethane	5.0	ND	ND	21.4	NA	20.0	ND	20.6	20.3	20.0	107.0	NA	85.0	118.0	103.0	101.5	60.0	140.0	1.5	20.0
2-chloroethylvinyl-ether	5.0	ND	ND	29.4	NA	20.0	ND	25.4	25.0	20.0	147.0	NA	NA	NA	127.0	125.0	60.0	140.0	1.6	20.0
4-methyl-2-pentanone	10.0	ND	ND	25.7	NA	20.0	ND	21.4	21.9	20.0	128.5	NA	NA	NA	107.0	109.5	60.0	140.0	2.3	20.0
cis-1,3-dichloropropene	5.0	ND	ND	22.9	NA	20.0	ND	21.7	21.3	20.0	114.5	NA	86.0	121.0	108.5	106.5	60.0	140.0	1.9	20.0
toluene	5.0	ND	ND	19.5	NA	20.0	ND	19.4	18.9	20.0	97.5	NA	84.0	113.0	97.0	94.5	60.0	140.0	2.6	20.0
trans-1,3-dichloropropene	5.0	ND	ND	21.8	NA	20.0	ND	21.1	20.4	20.0	109.0	NA	82.0	122.0	105.5	102.0	60.0	140.0	3.4	20.0
1,1,2-trichloroethane	5.0	ND	ND	21.8	NA	20.0	ND	21.1	20.9	20.0	109.0	NA	86.0	124.0	105.5	104.5	60.0	140.0	1.0	20.0
2-hexanone	10.0	ND	ND	19.0	NA	20.0	ND	15.7	16.4	20.0	95.0	NA	NA	NA	78.5	82.0	60.0	140.0	4.4	20.0
1,3-dichloropropane	5.0	ND	ND	21.8	NA	20.0	ND	20.9	20.7	20.0	109.0	NA	80.0	122.0	104.5	103.5	60.0	140.0	1.0	20.0
tetrachloroethene	5.0	ND	ND	22.0	NA	20.0	ND	25.1	27.6	20.0	110.0	NA	79.0	114.0	0.0	0.0	60.0	140.0	9.5	20.0
dibromochloromethane	5.0	ND	ND	21.7	NA	20.0	ND	21.0	20.5	20.0	108.5	NA	77.0	119.0	105.0	102.5	60.0	140.0	2.4	20.0

Notes and Definitions:

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MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
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ND= Not Detected
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KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG39333	Run Date:	4/16/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	04-188-11	SMPL DF:	5
Matrix:	SOIL	BLK FLNM:	6BK07115	SMPL FLNM:	6CU07116	MS DF:	5
Units:	ug/kg	BLK2 FLNM:	NA	MS FLNM:	6CU07117	MSD DF:	5
		LCS FLNM:	6QC07113	MSD FLNM:	6CU07118		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
1,2-dibromoethane	5.0	ND	ND	22.2	NA	20.0	ND	20.3	20.3	20.0	111.0	NA	76.0	123.0	101.5	101.5	60.0	140.0	0.0	20.0
chlorobenzene	5.0	ND	ND	21.4	NA	20.0	ND	20.6	19.6	20.0	107.0	NA	80.0	116.0	103.0	98.0	60.0	140.0	5.0	20.0
1,1,1,2-tetrachloroethane	5.0	ND	ND	21.2	NA	20.0	ND	21.1	20.2	20.0	106.0	NA	80.0	120.0	105.5	101.0	60.0	140.0	4.4	20.0
ethylbenzene	5.0	ND	ND	22.0	NA	20.0	ND	21.3	20.0	20.0	110.0	NA	77.0	119.0	106.5	100.0	60.0	140.0	6.3	20.0
m+p-xylene	5.0	ND	ND	44.0	NA	40.0	ND	42.5	40.0	40.0	110.0	NA	78.0	119.0	106.3	100.0	60.0	140.0	6.1	20.0
o-xylene	5.0	ND	ND	22.3	NA	20.0	ND	21.3	20.3	20.0	111.5	NA	78.0	119.0	106.5	101.5	60.0	140.0	4.8	20.0
styrene	5.0	ND	ND	22.2	NA	20.0	ND	21.2	20.2	20.0	111.0	NA	75.0	117.0	106.0	101.0	60.0	140.0	4.8	20.0
bromoform	5.0	ND	ND	21.1	NA	20.0	ND	19.2	19.1	20.0	105.5	NA	76.0	126.0	96.0	95.5	60.0	140.0	0.5	20.0
isopropylbenzene	5.0	ND	ND	22.6	NA	20.0	ND	21.3	19.9	20.0	113.0	NA	88.0	138.0	106.5	99.5	60.0	140.0	6.8	20.0
1,1,2,2-tetrachloroethane	5.0	ND	ND	22.8	NA	20.0	ND	20.6	20.2	20.0	114.0	NA	76.0	140.0	103.0	101.0	60.0	140.0	2.0	20.0
1,2,3-trichloropropane	5.0	ND	ND	22.6	NA	20.0	ND	20.1	20.1	20.0	113.0	NA	74.0	140.0	100.5	100.5	60.0	140.0	0.0	20.0
trans-1,4-dichloro-2-butene	5.0	ND	ND	NA	NA	20.0	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
propyl-benzene	5.0	ND	ND	22.1	NA	20.0	ND	20.5	18.8	20.0	110.5	NA	86.0	118.0	102.5	94.0	60.0	140.0	8.7	20.0
bromobenzene	5.0	ND	ND	21.3	NA	20.0	ND	19.6	18.6	20.0	106.5	NA	82.0	123.0	98.0	93.0	60.0	140.0	5.2	20.0
1,3,5-trimethylbenzene	5.0	ND	ND	22.3	NA	20.0	ND	20.8	19.1	20.0	111.5	NA	84.0	118.0	104.0	95.5	60.0	140.0	8.5	20.0
2-chlorotoluene	5.0	ND	ND	22.1	NA	20.0	ND	21.1	18.8	20.0	110.5	NA	83.0	122.0	105.5	94.0	60.0	140.0	11.5	20.0
4-chlorotoluene	5.0	ND	ND	21.7	NA	20.0	ND	20.0	19.4	20.0	108.5	NA	81.0	124.0	100.0	97.0	60.0	140.0	3.0	20.0
tert-butyl-benzene	5.0	ND	ND	21.7	NA	20.0	ND	19.8	18.2	20.0	108.5	NA	83.0	122.0	99.0	91.0	60.0	140.0	8.4	20.0
1,2,4-trimethylbenzene	5.0	ND	ND	21.9	NA	20.0	ND	20.6	19.1	20.0	109.5	NA	82.0	119.0	103.0	95.5	60.0	140.0	7.6	20.0
sec-butyl-benzene	5.0	ND	ND	22.1	NA	20.0	ND	19.8	18.0	20.0	110.5	NA	86.0	119.0	99.0	90.0	60.0	140.0	9.5	20.0

Notes and Definitions:

RDL= Reporting Detection Limit
BLK= Method Blank
BLK2= Second Method Blank
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LCL= Lower Control Limit
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RPD= Relative Percent Difference

ND= Not Detected
NA= Not Applicable

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG39333	Run Date:	4/16/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	04-188-11	SMPL DF:	5
Matrix:	SOIL	BLK FLNM:	6BK07115	SMPL FLNM:	6CU07116	MS DF:	5
Units:	ug/kg	BLK2 FLNM:	NA	MS FLNM:	6CU07117	MSD DF:	5
		LCS FLNM:	6QC07113	MSD FLNM:	6CU07118		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
	RDL	BLK	BLK2	LCS	LCS2	LCS Spike Level	SMPL	MS	MSD	MS Spike Level	LCS	LCS2	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	MS RPD	RPD UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
p-isopropyl-toluene	5.0	ND	ND	21.4	NA	20.0	ND	19.2	17.4	20.0	107.0	NA	86.0	122.0	96.0	87.0	60.0	140.0	9.8	20.0
1,3-dichlorobenzene	5.0	ND	ND	21.2	NA	20.0	ND	19.0	17.6	20.0	106.0	NA	86.0	116.0	95.0	88.0	60.0	140.0	7.7	20.0
1,4-dichlorobenzene	5.0	ND	ND	20.7	NA	20.0	ND	18.6	17.3	20.0	103.5	NA	86.0	117.0	93.0	86.5	60.0	140.0	7.2	20.0
n-butyl-benzene	5.0	ND	ND	22.0	NA	20.0	ND	18.9	17.0	20.0	110.0	NA	83.0	122.0	94.5	85.0	60.0	140.0	10.6	20.0
1,2-dichlorobenzene	5.0	ND	ND	21.5	NA	20.0	ND	19.2	17.9	20.0	107.5	NA	84.0	118.0	96.0	89.5	60.0	140.0	7.0	20.0
,2-dibromo-3-chloropropan	5.0	ND	ND	22.5	NA	20.0	ND	17.8	18.3	20.0	112.5	NA	63.0	149.0	89.0	91.5	60.0	140.0	2.8	20.0
1,2,4-trichlorobenzene	5.0	ND	ND	20.6	NA	20.0	ND	16.0	14.8	20.0	103.0	NA	69.0	127.0	80.0	74.0	60.0	140.0	7.8	20.0
hexachlorobutadiene	5.0	ND	ND	20.8	NA	20.0	ND	15.7	14.1	20.0	104.0	NA	82.0	139.0	78.5	70.5	60.0	140.0	10.7	20.0
napthalene	10.0	ND	ND	21.9	NA	20.0	ND	16.6	16.7	20.0	109.5	NA	56.0	141.0	83.0	83.5	60.0	140.0	0.6	20.0
1,2,3-trichlorobenzene	5.0	ND	ND	20.6	NA	20.0	ND	15.7	14.8	20.0	103.0	NA	34.0	161.0	78.5	74.0	60.0	140.0	5.9	20.0

BLK2= Second Method Blank
LCS= Laboratory Control Sample
LCS2= Second Laboratory Control Sample
SMPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
RPD= Relative Percent Difference

ND= Not Detected
NA= Not Applicable
RDL= Reporting Detection Limit
BLK= Method Blank

KEMRON ENVIRONMENTAL SERVICES, INC.

MARIETTA, OH

QUALITY CONTROL / METHOD 8260 SOIL EXTRACTIONS

RUN DATE:	04/17/98	BLK FLNM:	28K23740	SMPL NAME:	04-188-10
EXTRACT DATE	04/17/98	LCS FLNM:	2QC23739	SMPL DF:	125
INSTRUMENT:	HPMS_2	SHIFT:	AM	FILE NAME:	2CU23743
ANALYST(S):	SLT	WORK GROUP:	WG38331	DUP FLNM:	2CU23744

VOA COMPOUND	PRACTICAL QUANTITATION LIMIT (PQL) ug/Kg	METHOD BLANK ug/Kg	LCS 20 ug/Kg ug/Kg	LCS PERCENT RECOVERY %	CONTROL LIMITS %REC	SAMPLE RESULT ug/Kg	SAMPLE DUP ug/Kg	PERCENT RPD	ADVISORY LIMITS %
Dichlorodifluoromethane	10	ND	14.0	70.0	D - 132	0.0	0.0	#DIV/0!	20
Chloromethane	10	ND	17.5	87.5	20-142	0.0	0.0	#DIV/0!	20
Vinyl chloride	10	ND	16.1	80.5	24-134	0.0	0.0	#DIV/0!	20
Bromomethane	10	ND	18.3	91.5	13-154	0.0	0.0	#DIV/0!	20
Chloroethane	10	ND	19.3	96.5	6-165	0.0	0.0	#DIV/0!	20
Trichlorofluoromethane	10	ND	18.5	92.5	D-151	0.0	0.0	#DIV/0!	20
1,1-Dichloroethene	5	ND	22.9	114.5	43-126	0.0	0.0	#DIV/0!	20
Methylene chloride	5	ND	20.9	104.5	32-135	0.0	0.0	#DIV/0!	20
trans-1,2-Dichloroethene	5	ND	23.7	118.5	52-121	0.0	0.0	#DIV/0!	20
1,1-Dichloroethane	5	ND	22.0	110.0	63-113	0.0	0.0	#DIV/0!	20
2,2-Dichloropropane	5	ND	20.4	102.0	59-121	0.0	0.0	#DIV/0!	20
cis-1,2-Dichloroethene	5	ND	20.3	101.5	60-118	0.0	0.0	#DIV/0!	20
Bromochloromethane	5	ND	19.3	96.5	61-118	0.0	0.0	#DIV/0!	20
Chloroform	5	ND	19.8	99.0	69-114	0.0	0.0	#DIV/0!	20
1,1,1-Trichloroethane	5	ND	19.4	97.0	62-111	0.0	0.0	#DIV/0!	20
1,1-Dichloropropene	5	ND	23.3	116.5	71-123	0.0	0.0	#DIV/0!	20
Carbon tetrachloride	5	ND	19.5	97.5	42-126	0.0	0.0	#DIV/0!	20
1,2-Dichloroethane	5	ND	19.0	95.0	70-124	0.0	0.0	#DIV/0!	20
Benzene	5	ND	21.0	105.0	66-118	0.0	0.0	#DIV/0!	20
Trichloroethene	5	ND	19.6	98.0	64-121	9.8	11.0	11.6	20
1,2-Dichloropropane	5	ND	21.7	108.5	67-134	0.0	0.0	#DIV/0!	20
Bromodichloromethane	5	ND	19.5	97.5	54-128	0.0	0.0	#DIV/0!	20
Dibromomethane	5	ND	19.3	96.5	68-125	0.0	0.0	#DIV/0!	20
cis-1,3-Dichloropropene	5	ND	21.0	105.0	56-131	0.0	0.0	#DIV/0!	20
Toluene	5	ND	20.9	104.5	61-120	0.0	0.0	#DIV/0!	20
trans-1,3-Dichloropropene	5	ND	20.0	100.0	48-133	0.0	0.0	#DIV/0!	20
1,1,2-Trichloroethane	5	ND	20.0	100.0	53-136	0.0	0.0	#DIV/0!	20
1,3-Dichloropropane	5	ND	20.3	101.5	60-118	0.0	0.0	#DIV/0!	20
Tetrachloroethene	5	ND	20.1	100.5	63-112	0.0	0.0	#DIV/0!	20
Dibromochloromethane	5	ND	19.0	95.0	53-112	0.0	0.0	#DIV/0!	20
1,2-Dibromoethane	5	ND	19.6	98.0	62-111	0.0	0.0	#DIV/0!	20
Chlorobenzene	5	ND	20.0	100.0	66-109	0.0	0.0	#DIV/0!	20
1,1,1,2-Tetrachloroethane	5	ND	19.0	95.0	50-117	0.0	0.0	#DIV/0!	20
Ethylbenzene	5	ND	21.0	105.0	52-112	0.0	0.0	#DIV/0!	20
m + p-Xylene	5	ND	41.0	102.5	62-112	0.0	0.0	#DIV/0!	20
o-Xylene	5	ND	20.4	102.0	56-111	0.0	0.0	#DIV/0!	20

KEMRON ENVIRONMENTAL SERVICES, INC.

MARIETTA, OH

QUALITY CONTROL / METHOD 8260 SOIL EXTRACTIONS

RUN DATE:	04/17/98	BLK FLNM:	2BK23740	SMPL NAME:	04-188-10
EXTRACT DATE	04/17/98	LCS FLNM:	2OC23739	SMPL DF:	125
INSTRUMENT:	HPMS_2	SHIFT:	AM	FILE NAME:	2CU23743
ANALYST(S):	SLT	WORK GROUP:	WG38331	DUP FLNM:	2CU23744

VOA COMPOUND	PRACTICAL QUANTITATION LIMIT (PQL) ug/Kg	METHOD BLANK ug/Kg	LCS 20 ug/Kg ug/Kg	LCS PERCENT RECOVERY %	CONTROL LIMITS %REC	SAMPLE RESULT ug/Kg	SAMPLE DUP ug/Kg	PERCENT RPD	ADVISORY LIMITS %
Isopropylbenzene	5	ND	20.2	101.0	87-133	0.0	0.0	#DIV/0!	20
Bromoform	5	ND	18.9	84.5	47-129	0.0	0.0	#DIV/0!	20
1,1,2,2-Tetrachloroethane	5	ND	20.1	100.5	64-139	0.0	0.0	#DIV/0!	20
1,2,3-Trichloropropane	5	ND	19.8	98.0	72-136	0.0	0.0	#DIV/0!	20
propyl-benzene	5	ND	20.5	102.5	67-118	0.0	0.0	#DIV/0!	20
Bromobenzene	5	ND	19.2	96.0	61-120	0.0	0.0	#DIV/0!	20
1,3,5-Trimethylbenzene	5	ND	20.1	100.5	71-114	0.0	0.0	#DIV/0!	20
2-Chlorotoluene	5	ND	21.4	107.0	67-121	0.0	0.0	#DIV/0!	20
4-Chlorotoluene	5	ND	18.7	93.5	58-130	0.0	0.0	#DIV/0!	20
tert-butyl-benzene	5	ND	20.3	101.5	72-114	0.0	0.0	#DIV/0!	20
1,2,4-Trimethylbenzene	5	ND	20.4	102.0	73-116	0.0	0.0	#DIV/0!	20
sec-butyl-benzene	5	ND	20.6	103.0	75-116	0.0	0.0	#DIV/0!	20
p-isopropyl-toluene	5	ND	19.7	98.5	77-117	0.0	0.0	#DIV/0!	20
1,3-Dichlorobenzene	5	ND	19.4	97.0	69-118	0.0	0.0	#DIV/0!	20
1,4-Dichlorobenzene	5	ND	19.8	99.0	65-122	0.0	0.0	#DIV/0!	20
n-butyl-benzene	5	ND	21.0	105.0	73-119	0.0	0.0	#DIV/0!	20
1,2-Dichlorobenzene	5	ND	19.7	98.5	65-124	0.0	0.0	#DIV/0!	20
1,2-dibromo-3-chloropropane	5	ND	18.2	91.0	55-141	0.0	0.0	#DIV/0!	20
1,2,4-Trichlorobenzene	5	ND	18.9	94.5	68-118	0.0	0.0	#DIV/0!	20
Hexachlorobutadiene	5	ND	19.8	99.0	75-143	0.0	0.0	#DIV/0!	20
Naphthalene	10	ND	19.3	96.5	55-144	0.0	0.0	#DIV/0!	20
1,2,3-Trichlorobenzene	5	ND	18.5	92.5	64-119	0.0	0.0	#DIV/0!	20
Styrene	5	ND	20.1	100.5	60-140	0.0	0.0	#DIV/0!	20
Acetone	100	ND	NA	NA	NA	NA	NA	NA	NA
Iodomethane	NA	ND	NA	NA	NA	NA	NA	NA	NA
Freon 113	NA	ND	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	5	ND	NA	NA	NA	NA	NA	NA	NA
2-Butanone	100	ND	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	10	ND	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	10	ND	NA	NA	NA	NA	NA	NA	NA
2-Chloroethylvinylether	10	ND	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	10	ND	NA	NA	NA	NA	NA	NA	NA

CHRYSLER CORPORATION

Chain-of-Custody

00927 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal, Building 40B
Site Location: Dayton, OH
Site Code: SC001
RFA Number: YGQP9800208-T
Chrysler PM: Gary Stanczuk

Consultant: Leggette, Brashears & Graham, Inc.
Address: 1210 W. County Road E, Suite 700
St Paul, MN 55112
Consultant PM: Ken Vogel
Phone: (612) 490-1405 Fax: -1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
(10 days)
28 days

Data Package Deliverables: (circle)
(Chrysler Level 1)
Chrysler Level 2
Other (specify):

Matrix Codes
(S) Soil — SW - Surface Water
GW - Groundwater — A - Air
Sed. - Sediment
(O) Other (specify) Type II H_2O

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	VOC 8260-TCL-GC/MS 4oz wm jars	VOC 8260 TCL-GC/MS -TCLP - 4oz wm jars	VOC 8260 GC/MS 40ml VOH vials							Volatiles pH <2	Metals pH <2	Cyanide pH >12	Other	Remarks
FB040698	4/6/98	1730	G	O	2			✓											Begin SDG 208-C
TB 040698		—	—	O	1			✓											
TB-13 (5-7')		1600	G	S	2	✓	✓												
TB-14 (3-5')		1715	G	S	2	✓	✓												
TB-15 (3-5')	4/7/98	0830	G	S	2	✓	✓												
TB-16 (5-7')		1300	G	S	2	✓	✓												
TB-17 (5-7') Field Dup		1030	G	S	4	✓	✓												Field Duplicate
TB-18 (3-5')		1120	G	S	2	✓	✓												
TB-19 (1-3') MS		1500	G	S	3	✓	✓												MSD
TB-19 (3-5') MSD/MS per client		1510	G	S	4	✓	✓												MS

Sampler(s): Kai Hansen

Bottles Relinquished under Airbill No. 4287 4953 9751

Samples Relinquished under Airbill No. 8024953344

Temperature (corrected) ___ C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Kai Hansen	4/7/98	1900				Yes No
						Yes No
			Received for Laboratory by: Angelina R. Scott	4/8/98	937	(Yes) No

Cooler ID # 42

Is RFA sampling complete? (Yes) No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00/51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

Cooler temp: 1.0
Seals intact

Revision No. 1
Created: September 23, 1997

CHRYSLER CORPORATION

Chain of Custody

№ 10735 A

CompuChem Environmental Corporation
3306 Chapel Hill/Nelson Highway
P.O.Box 14998
Research Triangle Park, NC 27709-4998
Phone Number: 1-800-833-5097
Fax Number: (919) 406-1686

Project Name: Dayton Thermal Products, Building 40B
Site Code: SC 001
Release Number: YGQP98 00208-T
Chrysler PM: Gary Stanczuk

Consultant PM: Ken Vogel - Leggette Brashears & Graham
Address 1210 W. County Road E, Suite 700
St. Paul, MN 55112
Phone: (612) 490-1405 Fax: -1006

Turnaround Time Request: 10 day

Sampler(s): Kai Hansen

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil SW - Surface Water
GW - Ground Water A - Air
Sed. - Sediment
(O) Other (specify) Type II H_2O

Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	VOC 8260 TCL - 5 g/ms - 40 ml VOA vials - HCl										Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
FBC40798	4/7/98	1600	G	O	2	✓														ENO SGD 208-C

Data Package Deliverables:
(circle)
(Chrysler Level 1)
Chrysler Level 2
Chrysler Level 3
CLP Deliverables
Other (specify):

Bottles Reliquished under Airbill No. 4287 4953 9751
Samples Relinquished under Airbill No. 80249 53344
Temperature (corrected) ___ C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Kai Hansen	4-7-98	1900				Yes No
						Yes No
			Received for Laboratory by: Angelina R. Scott	4/8/98	937	(Yes) No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

Cooler Temp: 1.0
Seals rec'd intact.

Revision No. 0
Created: July 17, 1995

WORK ORDER #: L9804188 Client: Compuchem SAMPLE #: 1-14 PAGE: 1

SAMPLE #	TESTS	REASON	REMOVED BY (ADT)	REMOVED FROM	MOVED TO	RELIQ. BY	RET'D BY (ADT)	RET'D TO	REC'D BY	REASON
3-13	8260	Anal	SLT 4/13/98 1517	V-1	VOA	Blg	Blg 4/20/98 @1530	Archive	Cir S	Archive
,2,14	8260	Anal	JLH 4/15/98 @ 1700	V-1	VOA	Blg	Blg 4/20/98 @1530	Archive	Cir S	Archive
3-13	PCT S	anal	MZL 4/16/98 1400	VOA	wet *	Blg				

* Portion of sample taken for PCT S analysis [illegible] removed from VOA [illegible]
MZL 4/16/98 1400

Ken Vogel / LBG

AFFIDAVIT ON BEHALF OF CERTIFIED LABORATORY

I, David L. Bumgarner, being duly sworn on oath, state that, to the best of my knowledge, information, and belief:

1. I am authorized to submit this affidavit on behalf of KEMRON Environmental Services, Inc., which has been engaged as a Certified Laboratory for purposes of a voluntary action pursuant to Ohio's Voluntary Action Program.

2. The voluntary action is being conducted at the Dayton Thermal property located at 1600 Webster St. Dayton, OH 45401

3. KEMRON Environmental Services, Inc. was a Certified Laboratory pursuant to Ohio Revised Code (ORC) Chapter 3746 and Ohio Administrative Code (OAC) Chapter 3745-300 when it performed the analyses for the purposes of conducting or completing the voluntary action.

4. All of the analyses performed by KEMRON Environmental Services, Inc. for purposes of conducting or completing the voluntary action complied with the applicable requirements of ORC Chapter 3746 and rules adopted under OAC Chapter 3745-300.

5. The following information, data, documents, and/or reports, attached hereto, are being submitted with this affidavit (attach additional pages if more space is needed):

(a) Report No.: L9803136;
(b) _____;
(c) _____.

6. All of the information, data, documents, and/or reports submitted with this affidavit are true, accurate, and complete.

7. KEMRON Environmental Services, Inc. has no conflict of interest, as set forth in OAC rules 3745-300-04(I)(5) and 3745-300-05 (F)(3), in performing the analyses referred to in this affidavit.

FURTHER AFFIANT SAYETH NOT.

David L. Bumgarner
(Signature)

Subscribed and sworn before me
this 20 day of March, 1998

Lucinda Sue Arnold
Notary Public

My commission expires: 6/16/2002

LUCINDA SUE ARNOLD
NOTARY PUBLIC, STATE OF OHIO
MY COMMISSION EXPIRES 6/16/2002

KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (614) 373-4071

CompuChem
501 Madison Avenue
Cary, NC 27513

Attention: Cathy Dover

PO Number:
Account Number: COMPUCHEM-529

Login #: L9803136
Report Date: 03/20/98
Work ID: SC001/DAYTON THERMAL, BLDG.40B
Date Received: 03/06/98

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L9803136-01	AS (3-5')	L9803136-02	AS (31-33')
L9803136-03	FB030398-208A	L9803136-04	TB030598-208A
L9803136-05	SVE (2-4')	L9803136-06	FB030598-208A

** SDG 208-A **

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

Certified By
David L. Bumgarner

EPA Region 5 Records Ctr.
350039

KEMRON
ENVIRONMENTAL SERVICES

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

Volatile Organics 8260:

The mid-level soil extraction LCS had several recoveries above the upper control limits. Trichloroethene was among these compounds and was detected in samples AS (31-33') and SVE (2-4') (Kemron ID L98-03-136-02 and 05). The other LCS outliers were not detected above the reporting limits in these samples. Mid-level extraction LCS control limit ranges are advisory limits for guidance only.

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9803136-01
Client Sample ID: AS (3-5')
Site/Work ID: SC001/DAYTON THERMAL, BLDG.40B

Matrix: Soil
Collected: 03/03/98 1100

% Solid: 97
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	97		1.0	1	N/A	MZL	03/13/98	08:45	D2216-90

Product: 8260 - Volatile Organics

Lab Sample ID: L9803136-01
Client Sample ID: AS (3-5')
Site/Work ID: SC001/DAYTON THERMAL, BLDG.40B
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/03/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: 97

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/17/98 Time: 17:38

Instrument: HPMS2
Analyst: SLT
Lab File ID: 2CU23279

Method: 8260A
Run ID: R43067

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone.....	ug/kg	4.4	J	100	1
71-43-2	Benzene.....	ug/kg		ND	5.2	1
108-86-1	Bromobenzene.....	ug/kg		ND	5.2	1
74-97-5	Bromochloromethane.....	ug/kg		ND	5.2	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	5.2	1
75-25-2	Bromoform.....	ug/kg		ND	5.2	1
74-83-9	Bromomethane.....	ug/kg		ND	10	1
78-93-3	2-Butanone.....	ug/kg		ND	100	1
104-51-8	n-Butylbenzene.....	ug/kg		ND	5.2	1
135-98-8	sec-Butylbenzene.....	ug/kg		ND	5.2	1
98-06-6	tert-Butylbenzene.....	ug/kg		ND	5.2	1
75-15-0	Carbon disulfide.....	ug/kg		ND	5.2	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	5.2	1
108-90-7	Chlorobenzene.....	ug/kg		ND	5.2	1
124-48-1	Chlorodibromomethane.....	ug/kg		ND	5.2	1
75-00-3	Chloroethane.....	ug/kg		ND	10	1
110-75-8	2-Chloroethyl vinyl ether.....	ug/kg		ND	10	1
67-66-3	Chloroform.....	ug/kg		ND	5.2	1
74-87-3	Chloromethane.....	ug/kg		ND	10	1
95-49-8	2-Chlorotoluene.....	ug/kg		ND	5.2	1
106-43-4	4-Chlorotoluene.....	ug/kg		ND	5.2	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	5.2	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	5.2	1
74-95-3	Dibromomethane.....	ug/kg		ND	5.2	1

Login #L9803136
March 20, 1998 01:27 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9803136-01
Client Sample ID: AS (3-5')
Site/Work ID: SC001/DAYTON THERMAL, BLDG.40B
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/03/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: 97

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/17/98 Time: 17:38

Instrument: HPMS2
Analyst: SLT
Lab File ID: 2CU23279

Method: 8260A
Run ID: R43067

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.2	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.2	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.2	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	10	1
75-34-3	1,1-Dichloroethane	ug/kg	1.0	J	5.2	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.2	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.2	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	8.2		5.2	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.2	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.2	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.2	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.2	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.2	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.2	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.2	1
100-41-4	Ethylbenzene	ug/kg		ND	5.2	1
591-78-6	2-Hexanone	ug/kg		ND	10	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	5.2	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.2	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.2	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	10	1
75-09-2	Methylene chloride	ug/kg	0.41	J	5.2	1
91-20-3	Naphthalene	ug/kg		ND	10	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.2	1
100-42-5	Styrene	ug/kg		ND	5.2	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.2	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.2	1
127-18-4	Tetrachloroethene	ug/kg	33		5.2	1
108-88-3	Toluene	ug/kg	0.38	J	5.2	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	5.2	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	5.2	1
71-55-6	1,1,1-Trichloroethane	ug/kg	8.2		5.2	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.2	1
79-01-6	Trichloroethene	ug/kg	130	D	5.2	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	10	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.2	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.2	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.2	1
108-05-4	Vinyl acetate	ug/kg		ND	10	1

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9803136-01
Client Sample ID: AS (3-5')
Site/Work ID: SC001/DAYTON THERMAL, BLDG.40B
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/03/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: 97

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/17/98 Time: 17:38

Instrument: HPMS2
Analyst: SLT
Lab File ID: 2CU23279

Method: 8260A
Run ID: R43067

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-01-4	Vinyl chloride	ug/kg		ND	10	1
95-47-6	o-Xylene	ug/kg		ND	5.2	1
108-38-3	m-Xylene	ug/kg		ND	5.2	1
106-42-3	p-Xylene	ug/kg		ND	5.2	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	108	(80 - 120%)
1,2-Dichloroethane-d4	117	(80 - 120%)
Toluene-d8	109	(81 - 117%)
4-Bromofluorobenzene	114	(74 - 121%)

Lab Sample ID: L9803136-02
Client Sample ID: AS (31-33')
Site/Work ID: SC001/DAYTON THERMAL, BLDG.40B

Matrix: Soil
Collected: 03/03/98 1615

% Solid: 87
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids	% wt.	87		1.0	1	N/A	MZL	03/13/98	08:45	D2216-90

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9803136-02
Client Sample ID: AS (31-33')
Site/Work ID: SC001/DAYTON THERMAL, BLDG.40B
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/03/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: 87

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/17/98 Time: 11:06

Instrument: HPMS1
Analyst: CMS
Lab File ID: 1CC26677

Method: 8260A
Run ID: R43119

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg		ND	14000	125
71-43-2	Benzene	ug/kg		ND	720	125
108-86-1	Bromobenzene	ug/kg		ND	720	125
74-97-5	Bromochloromethane	ug/kg		ND	720	125
75-27-4	Bromodichloromethane	ug/kg		ND	720	125
75-25-2	Bromoform	ug/kg		ND	720	125
74-83-9	Bromomethane	ug/kg		ND	1400	125
78-93-3	2-Butanone	ug/kg		ND	14000	125
104-51-8	n-Butylbenzene	ug/kg		ND	720	125
135-98-8	sec-Butylbenzene	ug/kg		ND	720	125
98-06-6	tert-Butylbenzene	ug/kg		ND	720	125
75-15-0	Carbon disulfide	ug/kg		ND	720	125
56-23-5	Carbon tetrachloride	ug/kg		ND	720	125
108-90-7	Chlorobenzene	ug/kg		ND	720	125
124-48-1	Chlorodibromomethane	ug/kg		ND	720	125
75-00-3	Chloroethane	ug/kg		ND	1400	125
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	1400	125
67-66-3	Chloroform	ug/kg		ND	720	125
74-87-3	Chloromethane	ug/kg		ND	1400	125
95-49-8	2-Chlorotoluene	ug/kg		ND	720	125
106-43-4	4-Chlorotoluene	ug/kg		ND	720	125
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	720	125
106-93-4	1,2-Dibromoethane	ug/kg		ND	720	125
74-95-3	Dibromomethane	ug/kg		ND	720	125
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	720	125
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	720	125
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	720	125
75-71-8	Dichlorodifluoromethane	ug/kg		ND	1400	125
75-34-3	1,1-Dichloroethane	ug/kg		ND	720	125
107-06-2	1,2-Dichloroethane	ug/kg		ND	720	125
75-35-4	1,1-Dichloroethene	ug/kg		ND	720	125
156-59-2	cis-1,2-Dichloroethene	ug/kg	140	J	720	125
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	720	125
78-87-5	1,2-Dichloropropane	ug/kg		ND	720	125
142-28-9	1,3-Dichloropropane	ug/kg		ND	720	125
594-20-7	2,2-Dichloropropane	ug/kg		ND	720	125
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	720	125
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	720	125
563-58-6	1,1-Dichloropropene	ug/kg		ND	720	125

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9803136-02
Client Sample ID: AS (31-33')
Site/Work ID: SC001/DAYTON THERMAL, BLDG.40B
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/03/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: 87

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/17/98 Time: 11:06

Instrument: HPMS1
Analyst: CMS
Lab File ID: 1CC26677

Method: 8260A
Run ID: R43119

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg	38	J	720	125
591-78-6	2-Hexanone	ug/kg		ND	1400	125
87-68-3	Hexachlorobutadiene	ug/kg		ND	720	125
98-82-8	Isopropylbenzene	ug/kg		ND	720	125
99-87-6	p-Isopropyltoluene	ug/kg		ND	720	125
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	1400	125
75-09-2	Methylene chloride	ug/kg		ND	720	125
91-20-3	Naphthalene	ug/kg		ND	1400	125
103-65-1	n-Propylbenzene	ug/kg		ND	720	125
100-42-5	Styrene	ug/kg		ND	720	125
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	720	125
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	720	125
127-18-4	Tetrachloroethene	ug/kg	280	J	720	125
108-88-3	Toluene	ug/kg		ND	720	125
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	720	125
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	720	125
71-55-6	1,1,1-Trichloroethane	ug/kg	61	J	720	125
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	720	125
79-01-6	Trichloroethene	ug/kg	3400	(A)	720	125
75-69-4	Trichlorofluoromethane	ug/kg		ND	1400	125
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	720	125
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	720	125
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	720	125
108-05-4	Vinyl acetate	ug/kg		ND	1400	125
75-01-4	Vinyl chloride	ug/kg		ND	1400	125
95-47-6	o-Xylene	ug/kg		ND	720	125
108-38-3	m-Xylene	ug/kg	22	J,X	720	125
106-42-3	p-Xylene	ug/kg		X	720	125

SURROGATES- In Percent Recovery:

Dibromofluoromethane	91.8	(80 - 120%)
1,2-Dichloroethane-d4	90.3	(80 - 120%)
Toluene-d8	91.5	(81 - 117%)
4-Bromofluorobenzene	91.8	(74 - 121%)

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9803136-03
Client Sample ID: FB030398-208A
Site/Work ID: SC001/DAYTON THERMAL, BLDG.40B
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/03/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/98 Time: 15:39

Instrument: HPMS1
Analyst: CMS
Lab File ID: 1CC26665

Method: 8260A
Run ID: R42996

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/L		ND	100	1
71-43-2	Benzene	ug/L		ND	5.0	1
108-86-1	Bromobenzene	ug/L		ND	5.0	1
74-97-5	Bromochloromethane	ug/L		ND	5.0	1
75-27-4	Bromodichloromethane	ug/L		ND	5.0	1
75-25-2	Bromoform	ug/L		ND	5.0	1
74-83-9	Bromomethane	ug/L		ND	10	1
78-93-3	2-Butanone	ug/L		ND	100	1
104-51-8	n-Butylbenzene	ug/L		ND	5.0	1
135-98-8	sec-Butylbenzene	ug/L		ND	5.0	1
98-06-6	tert-Butylbenzene	ug/L		ND	5.0	1
75-15-0	Carbon disulfide	ug/L		ND	5.0	1
56-23-5	Carbon tetrachloride	ug/L		ND	5.0	1
108-90-7	Chlorobenzene	ug/L		ND	100	1
124-48-1	Chlorodibromomethane	ug/L		ND	5.0	1
75-00-3	Chloroethane	ug/L		ND	10	1
110-75-8	2-Chloroethyl vinyl ether	ug/L		ND	10	1
67-66-3	Chloroform	ug/L		ND	5.0	1
74-87-3	Chloromethane	ug/L		ND	10	1
95-49-8	2-Chlorotoluene	ug/L		ND	5.0	1
106-43-4	4-Chlorotoluene	ug/L		ND	5.0	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/L		ND	5.0	1
106-93-4	1,2-Dibromoethane	ug/L		ND	5.0	1
74-95-3	Dibromomethane	ug/L		ND	5.0	1
95-50-1	1,2-Dichlorobenzene	ug/L		ND	600	1
541-73-1	1,3-Dichlorobenzene	ug/L		ND	5.0	1
106-46-7	1,4-Dichlorobenzene	ug/L		ND	75	1
75-71-8	Dichlorodifluoromethane	ug/L		ND	10	1
75-34-3	1,1-Dichloroethane	ug/L		ND	5.0	1
107-06-2	1,2-Dichloroethane	ug/L		ND	5.0	1
75-35-4	1,1-Dichloroethene	ug/L		ND	7.0	1
156-59-2	cis-1,2-Dichloroethene	ug/L		ND	70	1
156-60-5	trans-1,2-Dichloroethene	ug/L		ND	100	1
78-87-5	1,2-Dichloropropane	ug/L		ND	5.0	1
142-28-9	1,3-Dichloropropane	ug/L		ND	5.0	1
594-20-7	2,2-Dichloropropane	ug/L		ND	5.0	1
10061-01-5	cis-1,3-Dichloropropene	ug/L		ND	5.0	1
10061-02-6	trans-1,3-Dichloropropene	ug/L		ND	5.0	1
563-58-6	1,1-Dichloropropene	ug/L		ND	5.0	1

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9803136-03
Client Sample ID: FB030398-208A
Site/Work ID: SC001/DAYTON THERMAL, BLDG.40B
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/03/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/98 Time: 15:39

Instrument: HPMS1
Analyst: CMS
Lab File ID: 1CC26665

Method: 8260A
Run ID: R42996

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/L		ND	700	1
591-78-6	2-Hexanone	ug/L		ND	10	1
87-68-3	Hexachlorobutadiene	ug/L		ND	5.0	1
98-82-8	Isopropylbenzene	ug/L		ND	5.0	1
99-87-6	p-Isopropyltoluene	ug/L		ND	5.0	1
108-10-1	4-Methyl-2-pentanone	ug/L		ND	10	1
75-09-2	Dichloromethane	ug/L	0.83	J	5.0	1
91-20-3	Naphthalene	ug/L		ND	10	1
103-65-1	n-Propylbenzene	ug/L		ND	5.0	1
100-42-5	Styrene	ug/L		ND	100	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/L		ND	5.0	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/L		ND	5.0	1
127-18-4	Tetrachloroethene	ug/L		ND	5.0	1
108-88-3	Toluene	ug/L		ND	1000	1
87-61-6	1,2,3-Trichlorobenzene	ug/L		ND	5.0	1
120-82-1	1,2,4-Trichlorobenzene	ug/L		ND	70	1
71-55-6	1,1,1-Trichloroethane	ug/L		ND	200	1
79-00-5	1,1,2-Trichloroethane	ug/L		ND	5.0	1
79-01-6	Trichloroethene	ug/L		ND	5.0	1
75-69-4	Trichlorofluoromethane	ug/L		ND	10	1
96-18-4	1,2,3-Trichloropropane	ug/L		ND	5.0	1
95-63-6	1,2,4-Trimethylbenzene	ug/L		ND	5.0	1
108-67-8	1,3,5-Trimethylbenzene	ug/L		ND	5.0	1
108-05-4	Vinyl acetate	ug/L		ND	10	1
75-01-4	Vinyl chloride	ug/L		ND	2.0	1
1330-20-7	Xylenes, Total	ug/L		ND	10000	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	102	(86 - 118%)
1,2-Dichloroethane-d4	103	(80 - 120%)
Toluene-d8	99.3	(88 - 110%)
4-Bromofluorobenzene	93.8	(86 - 115%)

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9803136-04
Client Sample ID: TB030598-208A
Site/Work ID: SC001/DAYTON THERMAL, BLDG.40B
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/05/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/98 Time: 16:16

Instrument: HPMS1
Analyst: CMS
Lab File ID: 1CC26666

Method: 8260A
Run ID: R42996

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/L		ND	100	1
71-43-2	Benzene	ug/L		ND	5.0	1
108-86-1	Bromobenzene	ug/L		ND	5.0	1
74-97-5	Bromochloromethane	ug/L		ND	5.0	1
75-27-4	Bromodichloromethane	ug/L		ND	5.0	1
75-25-2	Bromoform	ug/L		ND	5.0	1
74-83-9	Bromomethane	ug/L		ND	10	1
78-93-3	2-Butanone	ug/L		ND	100	1
104-51-8	n-Butylbenzene	ug/L		ND	5.0	1
135-98-8	sec-Butylbenzene	ug/L		ND	5.0	1
98-06-6	tert-Butylbenzene	ug/L		ND	5.0	1
75-15-0	Carbon disulfide	ug/L		ND	5.0	1
56-23-5	Carbon tetrachloride	ug/L		ND	5.0	1
108-90-7	Chlorobenzene	ug/L		ND	100	1
124-48-1	Chlorodibromomethane	ug/L		ND	5.0	1
75-00-3	Chloroethane	ug/L		ND	10	1
110-75-8	2-Chloroethyl vinyl ether	ug/L		ND	10	1
67-66-3	Chloroform	ug/L		ND	5.0	1
74-87-3	Chloromethane	ug/L		ND	10	1
95-49-8	2-Chlorotoluene	ug/L		ND	5.0	1
106-43-4	4-Chlorotoluene	ug/L		ND	5.0	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/L		ND	5.0	1
106-93-4	1,2-Dibromoethane	ug/L		ND	5.0	1
74-95-3	Dibromomethane	ug/L		ND	5.0	1
95-50-1	1,2-Dichlorobenzene	ug/L		ND	600	1
541-73-1	1,3-Dichlorobenzene	ug/L		ND	5.0	1
106-46-7	1,4-Dichlorobenzene	ug/L		ND	75	1
75-71-8	Dichlorodifluoromethane	ug/L		ND	10	1
75-34-3	1,1-Dichloroethane	ug/L		ND	5.0	1
107-06-2	1,2-Dichloroethane	ug/L		ND	5.0	1
75-35-4	1,1-Dichloroethene	ug/L		ND	7.0	1
156-59-2	cis-1,2-Dichloroethene	ug/L		ND	70	1
156-60-5	trans-1,2-Dichloroethene	ug/L		ND	100	1
78-87-5	1,2-Dichloropropane	ug/L		ND	5.0	1
142-28-9	1,3-Dichloropropane	ug/L		ND	5.0	1
594-20-7	2,2-Dichloropropane	ug/L		ND	5.0	1
10061-01-5	cis-1,3-Dichloropropene	ug/L		ND	5.0	1
10061-02-6	trans-1,3-Dichloropropene	ug/L		ND	5.0	1
563-58-6	1,1-Dichloropropene	ug/L		ND	5.0	1

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9803136-04
Client Sample ID: TB030598-208A
Site/Work ID: SC001/DAYTON THERMAL, BLDG.40B
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/05/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/98 Time: 16:16

Instrument: HPMS1
Analyst: CMS
Lab File ID: 1CC26666

Method: 8260A
Run ID: R42996

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/L		ND	700	1
591-78-6	2-Hexanone	ug/L		ND	10	1
87-68-3	Hexachlorobutadiene	ug/L		ND	5.0	1
98-82-8	Isopropylbenzene	ug/L		ND	5.0	1
99-87-6	p-Isopropyltoluene	ug/L		ND	5.0	1
108-10-1	4-Methyl-2-pentanone	ug/L		ND	10	1
75-09-2	Dichloromethane	ug/L		ND	5.0	1
91-20-3	Naphthalene	ug/L		ND	10	1
103-65-1	n-Propylbenzene	ug/L		ND	5.0	1
100-42-5	Styrene	ug/L		ND	100	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/L		ND	5.0	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/L		ND	5.0	1
127-18-4	Tetrachloroethene	ug/L		ND	5.0	1
108-88-3	Toluene	ug/L		ND	1000	1
87-61-6	1,2,3-Trichlorobenzene	ug/L		ND	5.0	1
120-82-1	1,2,4-Trichlorobenzene	ug/L		ND	70	1
71-55-6	1,1,1-Trichloroethane	ug/L		ND	200	1
79-00-5	1,1,2-Trichloroethane	ug/L		ND	5.0	1
79-01-6	Trichloroethene	ug/L		ND	5.0	1
75-69-4	Trichlorofluoromethane	ug/L		ND	10	1
96-18-4	1,2,3-Trichloropropane	ug/L		ND	5.0	1
95-63-6	1,2,4-Trimethylbenzene	ug/L		ND	5.0	1
108-67-8	1,3,5-Trimethylbenzene	ug/L		ND	5.0	1
108-05-4	Vinyl acetate	ug/L		ND	10	1
75-01-4	Vinyl chloride	ug/L		ND	2.0	1
1330-20-7	Xylenes, Total	ug/L		ND	10000	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	102	(86 - 118%)
1,2-Dichloroethane-d4	107	(80 - 120%)
Toluene-d8	98.5	(88 - 110%)
4-Bromofluorobenzene	92.0	(86 - 115%)

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9803136-05
Client Sample ID: SVE (2-4')
Site/Work ID: SC001/DAYTON THERMAL, BLDG.40B

Matrix: Soil
Collected: 03/05/98 1400

% Solid: 84
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	84		1.0	1	N/A	MZL	03/13/98	08:45	D2216-90

Product: 8260 - Volatile Organics

Lab Sample ID: L9803136-05
Client Sample ID: SVE (2-4')
Site/Work ID: SC001/DAYTON THERMAL, BLDG.40B
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/05/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: 84

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/17/98 Time: 11:42

Instrument: HPMS1
Analyst: CMS
Lab File ID: 1CC26678

Method: 8260A
Run ID: R43119

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone.....	ug/kg		ND	15000	125
71-43-2	Benzene.....	ug/kg		ND	740	125
108-86-1	Bromobenzene.....	ug/kg		ND	740	125
74-97-5	Bromochloromethane.....	ug/kg		ND	740	125
75-27-4	Bromodichloromethane.....	ug/kg		ND	740	125
75-25-2	Bromoform.....	ug/kg		ND	740	125
74-83-9	Bromomethane.....	ug/kg		ND	1500	125
78-93-3	2-Butanone.....	ug/kg		ND	15000	125
104-51-8	n-Butylbenzene.....	ug/kg		ND	740	125
135-98-8	sec-Butylbenzene.....	ug/kg		ND	740	125
98-06-6	tert-Butylbenzene.....	ug/kg		ND	740	125
75-15-0	Carbon disulfide.....	ug/kg		ND	740	125
56-23-5	Carbon tetrachloride.....	ug/kg		ND	740	125
108-90-7	Chlorobenzene.....	ug/kg		ND	740	125
124-48-1	Chlorodibromomethane.....	ug/kg		ND	740	125
75-00-3	Chloroethane.....	ug/kg		ND	1500	125
110-75-8	2-Chloroethyl vinyl ether.....	ug/kg		ND	1500	125
67-66-3	Chloroform.....	ug/kg		ND	740	125
74-87-3	Chloromethane.....	ug/kg		ND	1500	125
95-49-8	2-Chlorotoluene.....	ug/kg		ND	740	125
106-43-4	4-Chlorotoluene.....	ug/kg		ND	740	125
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	740	125
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	740	125
74-95-3	Dibromomethane.....	ug/kg		ND	740	125

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9803136-05
Client Sample ID: SVE (2-4')
Site/Work ID: SC001/DAYTON THERMAL, BLDG.40B
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/05/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: 84

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/17/98 Time: 11:42

Instrument: HPMS1
Analyst: CMS
Lab File ID: 1CC26678

Method: 8260A
Run ID: R43119

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	740	125
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	740	125
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	740	125
75-71-8	Dichlorodifluoromethane	ug/kg		ND	1500	125
75-34-3	1,1-Dichloroethane	ug/kg		ND	740	125
107-06-2	1,2-Dichloroethane	ug/kg		ND	740	125
75-35-4	1,1-Dichloroethene	ug/kg		ND	740	125
156-59-2	cis-1,2-Dichloroethene	ug/kg	430	J	740	125
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	740	125
78-87-5	1,2-Dichloropropane	ug/kg		ND	740	125
142-28-9	1,3-Dichloropropane	ug/kg		ND	740	125
594-20-7	2,2-Dichloropropane	ug/kg		ND	740	125
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	740	125
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	740	125
563-58-6	1,1-Dichloropropene	ug/kg		ND	740	125
100-41-4	Ethylbenzene	ug/kg	33	J	740	125
591-78-6	2-Hexanone	ug/kg		ND	1500	125
87-68-3	Hexachlorobutadiene	ug/kg		ND	740	125
98-82-8	Isopropylbenzene	ug/kg		ND	740	125
99-87-6	p-Isopropyltoluene	ug/kg		ND	740	125
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	1500	125
75-09-2	Methylene chloride	ug/kg		ND	740	125
91-20-3	Naphthalene	ug/kg		ND	1500	125
103-65-1	n-Propylbenzene	ug/kg		ND	740	125
100-42-5	Styrene	ug/kg		ND	740	125
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	740	125
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	740	125
127-18-4	Tetrachloroethene	ug/kg	390	J	740	125
108-88-3	Toluene	ug/kg		ND	740	125
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	740	125
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	740	125
71-55-6	1,1,1-Trichloroethane	ug/kg	620	J	740	125
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	740	125
79-01-6	Trichloroethene	ug/kg	10000	(A)	740	125
75-69-4	Trichlorofluoromethane	ug/kg		ND	1500	125
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	740	125
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	740	125
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	740	125
108-05-4	Vinyl acetate	ug/kg		ND	1500	125

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9803136-05
Client Sample ID: SVE (2-4')
Site/Work ID: SC001/DAYTON THERMAL, BLDG.40B
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/05/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: 84

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/17/98 Time: 11:42

Instrument: HPMS1
Analyst: CMS
Lab File ID: 1CC26678

Method: 8260A
Run ID: R43119

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-01-4	Vinyl chloride	ug/kg		ND	1500	125
95-47-6	o-Xylene	ug/kg		ND	740	125
108-38-3	m-Xylene	ug/kg	27	J,X	740	125
106-42-3	p-Xylene	ug/kg		X	740	125

SURROGATES- In Percent Recovery:

Dibromofluoromethane	93.8	(80 - 120%)
1,2-Dichloroethane-d4	91.6	(80 - 120%)
Toluene-d8	90.8	(81 - 117%)
4-Bromofluorobenzene	92.1	(74 - 121%)

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9803136-06
Client Sample ID: FB030598-208A
Site/Work ID: SC001/DAYTON THERMAL, BLDG.40B
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/05/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/98 Time: 16:53

Instrument: HPMS1
Analyst: CMS
Lab File ID: 1CC26667

Method: 8260A
Run ID: R42996

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/L	15	J	100	1
71-43-2	Benzene	ug/L		ND	5.0	1
108-86-1	Bromobenzene	ug/L		ND	5.0	1
74-97-5	Bromochloromethane	ug/L		ND	5.0	1
75-27-4	Bromodichloromethane	ug/L		ND	5.0	1
75-25-2	Bromoform	ug/L		ND	5.0	1
74-83-9	Bromomethane	ug/L		ND	10	1
78-93-3	2-Butanone	ug/L		ND	100	1

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9803136-06
Client Sample ID: FB030598-208A
Site/Work ID: SC001/DAYTON THERMAL, BLDG.40B
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/05/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/98 Time: 16:53

Instrument: HPMS1
Analyst: CMS
Lab File ID: 1CC26667

Method: 8260A
Run ID: R42996

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
104-51-8	n-Butylbenzene	ug/L		ND	5.0	1
135-98-8	sec-Butylbenzene	ug/L		ND	5.0	1
98-06-6	tert-Butylbenzene	ug/L		ND	5.0	1
75-15-0	Carbon disulfide	ug/L		ND	5.0	1
56-23-5	Carbon tetrachloride	ug/L		ND	5.0	1
108-90-7	Chlorobenzene	ug/L		ND	100	1
124-48-1	Chlorodibromomethane	ug/L		ND	5.0	1
75-00-3	Chloroethane	ug/L		ND	10	1
110-75-8	2-Chloroethyl vinyl ether	ug/L		ND	10	1
67-66-3	Chloroform	ug/L		ND	5.0	1
74-87-3	Chloromethane	ug/L		ND	10	1
95-49-8	2-Chlorotoluene	ug/L		ND	5.0	1
106-43-4	4-Chlorotoluene	ug/L		ND	5.0	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/L		ND	5.0	1
106-93-4	1,2-Dibromoethane	ug/L		ND	5.0	1
74-95-3	Dibromomethane	ug/L		ND	5.0	1
95-50-1	1,2-Dichlorobenzene	ug/L		ND	600	1
541-73-1	1,3-Dichlorobenzene	ug/L		ND	5.0	1
106-46-7	1,4-Dichlorobenzene	ug/L		ND	75	1
75-71-8	Dichlorodifluoromethane	ug/L		ND	10	1
75-34-3	1,1-Dichloroethane	ug/L		ND	5.0	1
107-06-2	1,2-Dichloroethane	ug/L		ND	5.0	1
75-35-4	1,1-Dichloroethene	ug/L		ND	7.0	1
156-59-2	cis-1,2-Dichloroethene	ug/L		ND	70	1
156-60-5	trans-1,2-Dichloroethene	ug/L		ND	100	1
78-87-5	1,2-Dichloropropane	ug/L		ND	5.0	1
142-28-9	1,3-Dichloropropane	ug/L		ND	5.0	1
594-20-7	2,2-Dichloropropane	ug/L		ND	5.0	1
10061-01-5	cis-1,3-Dichloropropene	ug/L		ND	5.0	1
10061-02-6	trans-1,3-Dichloropropene	ug/L		ND	5.0	1
563-58-6	1,1-Dichloropropene	ug/L		ND	5.0	1
100-41-4	Ethylbenzene	ug/L		ND	700	1
591-78-6	2-Hexanone	ug/L		ND	10	1
87-68-3	Hexachlorobutadiene	ug/L		ND	5.0	1
98-82-8	Isopropylbenzene	ug/L		ND	5.0	1
99-87-6	p-Isopropyltoluene	ug/L		ND	5.0	1
108-10-1	4-Methyl-2-pentanone	ug/L		ND	10	1
75-09-2	Dichloromethane	ug/L	1.1	J	5.0	1
91-20-3	Naphthalene	ug/L		ND	10	1

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9803136-06
Client Sample ID: FB030598-208A
Site/Work ID: SC001/DAYTON THERMAL, BLDG.40B
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/05/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/16/98 Time: 16:53

Instrument: HPMS1
Analyst: CMS
Lab File ID: 1CC26667

Method: 8260A
Run ID: R42996

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
103-65-1	n-Propylbenzene	ug/L		ND	5.0	1
100-42-5	Styrene	ug/L		ND	100	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/L		ND	5.0	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/L		ND	5.0	1
127-18-4	Tetrachloroethene	ug/L		ND	5.0	1
108-88-3	Toluene	ug/L		ND	1000	1
87-61-6	1,2,3-Trichlorobenzene	ug/L		ND	5.0	1
120-82-1	1,2,4-Trichlorobenzene	ug/L		ND	70	1
71-55-6	1,1,1-Trichloroethane	ug/L		ND	200	1
79-00-5	1,1,2-Trichloroethane	ug/L		ND	5.0	1
79-01-6	Trichloroethene	ug/L		ND	5.0	1
75-69-4	Trichlorofluoromethane	ug/L		ND	10	1
96-18-4	1,2,3-Trichloropropane	ug/L		ND	5.0	1
95-63-6	1,2,4-Trimethylbenzene	ug/L		ND	5.0	1
108-67-8	1,3,5-Trimethylbenzene	ug/L		ND	5.0	1
108-05-4	Vinyl acetate	ug/L		ND	10	1
75-01-4	Vinyl chloride	ug/L		ND	2.0	1
1330-20-7	Xylenes, Total	ug/L		ND	10000	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	103	(86 - 118%)
1,2-Dichloroethane-d4	105	(80 - 120%)
Toluene-d8	99.6	(88 - 110%)
4-Bromofluorobenzene	93.3	(86 - 115%)

ORGANIC QA/QC

Kemron
ENVIRONMENTAL SERVICES

KEMRON ENVIRONMENTAL SERVICES, INC.

MARIETTA, OH

QUALITY CONTROL / METHOD 8260

RUN DATE:	03/16/98	BLK FLNM:	1BK26655	SMPL NAME:	03-223-05
INSTRUMENT:	HPMS_1	LCS FLNM:	1QC26654	FILE NAME:	1IT26656
ANALYST(S):	CMS	SHIFT:	AM	MS FLNM:	1IT26657
		WORK GROUP:	WG37765	MSD FLNM:	1IT26658

VOA COMPOUND	REPORTING DETECTION LIMIT (RDL) ug/L	METHOD BLANK ug/L	LCS 20 ug/L ug/L	LCS PERCENT RECOVERY %	CONTROL LIMITS %REC	SAMPLE RESULT ug/L	MS 50 ug/L ug/L	MSD 50 ug/L ug/L	MS PERCENT RECOVERY %	MSD PERCENT RECOVERY %	ADVISORY LIMITS %	PERCENT RPD %	ADVISORY LIMITS %
Dichlorodifluoromethane	10	ND	10.4	52.0	29-162	0.0	25.5	25.0	51.0	50.0	60-140	2.0	20
Chloromethane	10	ND	14.1	70.5	58-142	0.0	36.0	37.9	72.0	75.8	D-273	5.1	20
Vinyl chloride	10	ND	18.1	90.5	56-154	0.0	43.3	44.1	86.6	88.2	D-251	1.8	20
Bromomethane	10	ND	22.5	112.5	52-143	0.0	53.3	53.4	106.6	106.8	D-242	0.2	20
Chloroethane	10	ND	19.4	97.0	63-143	0.0	45.4	48.6	90.8	97.2	14-230	6.8	20
Trichlorofluoromethane	10	ND	19.4	97.0	64-128	0.0	49.4	49.8	98.8	99.6	17-181	0.8	20
1,1-Dichloroethene	5	ND	23.1	115.5	70-130	0.0	59.2	59.3	118.4	118.6	D-234	0.2	20
Methylene chloride	5	ND	20.7	103.5	67-131	0.0	47.9	48.9	95.8	97.8	D-221	2.1	20
trans-1,2-Dichloroethene	5	ND	23.6	118.0	70-130	0.0	59.6	59.9	119.2	119.8	54-156	0.5	20
1,1-Dichloroethane	5	ND	22.1	110.5	80-120	0.0	59.2	55.4	118.4	110.8	59-155	6.6	20
2,2-Dichloropropane	5	ND	21.8	109.0	79-117	0.0	55.5	55.0	111.0	110.0	60-140	0.9	20
cis-1,2-Dichloroethene	5	ND	21.7	108.5	83-118	0.0	53.4	54.8	106.8	109.6	60-140	2.6	20
Bromochloromethane	5	ND	22.6	113.0	81-115	0.0	57.5	58.3	115.0	116.6	60-140	1.4	20
Chloroform	5	ND	21.5	107.5	86-114	0.0	53.7	54.0	107.4	108.0	51-138	0.6	20
1,1,1-Trichloroethane	5	ND	22.5	112.5	83-112	0.0	56.3	56.1	112.6	112.2	52-162	0.4	20
1,1-Dichloropropene	5	ND	24.8	124.0	83-120	0.0	60.2	60.1	120.4	120.2	60-140	0.2	20
Carbon tetrachloride	5	ND	22.6	113.0	80-120	0.0	57.7	56.8	115.4	113.6	70-140	1.6	20
1,2-Dichloroethane	5	ND	22.3	111.5	80-118	0.0	53.8	53.5	107.6	107.0	49-155	0.6	20
Benzene	5	ND	21.8	109.0	84-120	0.0	52.6	53.8	105.2	107.6	37-151	2.3	20
Trichloroethene	5	ND	22.2	111.0	80-120	0.0	55.5	55.9	111.0	111.8	71-157	0.7	20
1,2-Dichloropropane	5	ND	21.6	108.0	82-124	0.0	51.3	53.5	102.6	107.0	D-210	4.2	20
Bromodichloromethane	5	ND	22.1	110.5	80-118	0.0	55.7	57.0	111.4	114.0	35-155	2.3	20
Dibromomethane	5	ND	23.0	115.0	78-121	0.0	58.8	60.0	117.6	120.0	60-140	2.0	20
cis-1,3-Dichloropropene	5	ND	21.6	108.0	79-120	0.0	54.9	56.8	109.8	113.6	D-227	3.4	20
Toluene	5	ND	21.3	106.5	79-118	0.0	51.7	53.4	103.4	106.8	47-150	3.2	20
trans-1,3-Dichloropropene	5	ND	21.6	108.0	76-124	0.0	53.2	56.6	106.4	113.2	47-183	6.2	20
1,1,2-Trichloroethane	5	ND	21.4	107.0	78-122	0.0	52.9	56.7	105.8	113.4	52-150	6.9	20
1,3-Dichloropropane	5	ND	20.8	104.0	73-122	0.0	50.3	54.9	100.6	109.8	60-140	8.7	20
Tetrachloroethene	5	ND	22.4	112.0	76-120	0.0	53.4	55.3	106.8	110.6	64-148	3.5	20
Dibromochloromethane	5	ND	21.9	109.5	71-121	0.0	53.8	57.3	107.6	114.6	53-149	6.3	20
1,2-Dibromoethane	5	ND	21.6	108.0	69-123	0.0	54.1	57.8	108.2	115.6	60-140	6.6	20
Chlorobenzene	5	ND	21.4	107.0	75-117	0.0	51.6	53.7	103.2	107.4	37-160	4.0	20
1,1,1,2-Tetrachloroethane	5	ND	21.8	109.0	71-121	0.0	53.6	56.3	107.2	112.6	60-140	4.9	20
Ethylbenzene	5	ND	21.3	106.5	73-120	0.0	52.0	53.9	104.0	107.8	37-162	3.6	20
m+p-Xylene	5	ND	44.2	110.5	74-120	0.0	105.8	109.5	105.8	109.5	60-140	3.4	20
o-Xylene	5	ND	22.1	110.5	72-120	0.0	53.4	55.0	106.8	110.0	60-140	3.0	20

KEMRON ENVIRONMENTAL SERVICES, INC.

MARIETTA, OH

QUALITY CONTROL / METHOD 8260

RUN DATE:	03/16/98	BLK FLNM:	1BK26655	SMPL NAME:	03-223-05
INSTRUMENT:	HPMS_1	LCS FLNM:	1QC26654	FILE NAME:	1IT26656
ANALYST(S):	CMS	SHIFT:	AM	MS FLNM	1IT26657
		WORK GROUP:	WG37765	MSD FLNM:	1IT26658

VOA COMPOUND	REPORTING DETECTION LIMIT (RDL) ug/L	METHOD BLANK ug/L	LCS 20 ug/L ug/L	LCS PERCENT RECOVERY %	CONTROL LIMITS %REC	SAMPLE RESULT ug/L	MS 50 ug/L ug/L	MSD 50 ug/L ug/L	MS PERCENT RECOVERY %	MSD PERCENT RECOVERY %	ADVISORY LIMITS %	PERCENT RPD %	ADVISORY LIMITS %
Isopropylbenzene	5	ND	22.0	110.0	68-138	0.0	53.1	54.8	106.2	109.6	60-140	3.2	20
Bromoform	5	ND	21.5	107.5	71-124	0.0	56.2	59.9	112.4	119.8	45-169	6.4	20
1,1,2,2-Tetrachloroethane	5	ND	22.2	111.0	70-134	0.0	54.1	59.1	108.2	118.2	46-157	8.8	20
1,2,3-Trichloropropane	5	ND	20.0	100.0	72-128	0.0	51.9	56.7	103.8	113.4	60-140	8.8	20
propyl-benzene	5	ND	22.0	110.0	76-121	0.0	51.3	52.5	102.6	105.0	60-140	2.3	20
Bromobenzene	5	ND	21.5	107.5	76-123	0.0	51.9	54.1	103.8	108.2	60-140	4.2	20
1,3,5-Trimethylbenzene	5	ND	22.0	110.0	78-123	0.0	51.9	53.3	103.8	106.6	60-140	2.7	20
2-Chlorotoluene	5	ND	21.8	109.0	74-124	0.0	47.8	50.8	95.6	101.6	60-140	6.1	20
4-Chlorotoluene	5	ND	20.7	103.5	74-124	0.0	53.2	53.2	106.4	106.4	60-140	0.0	20
tert-butyl-benzene	5	ND	21.7	108.5	74-120	0.0	50.7	52.2	101.4	104.4	60-140	2.9	20
1,2,4-Trimethylbenzene	5	ND	21.8	109.0	77-121	0.0	52.3	53.6	104.6	107.2	60-140	2.5	20
sec-butyl-benzene	5	ND	22.6	113.0	79-122	0.0	52.4	53.9	104.8	107.8	60-140	2.8	20
p-isopropyl-toluene	5	ND	22.0	110.0	76-122	0.0	52.1	53.2	104.2	106.4	60-140	2.1	20
1,3-Dichlorobenzene	5	ND	21.1	105.5	79-117	0.0	51.5	53.2	103.0	106.4	60-140	3.2	20
1,4-Dichlorobenzene	5	ND	21.1	105.5	79-120	0.0	51.0	52.1	102.0	104.2	18-190	2.1	20
n-butyl-benzene	5	ND	22.5	112.5	74-126	0.0	53.6	54.4	107.2	108.8	60-140	1.5	20
1,2-Dichlorobenzene	5	ND	21.2	106.0	77-116	0.0	51.8	54.4	103.6	108.8	19-190	4.9	20
1,2-dibromo-3-chloropropane	5	ND	19.6	98.0	64-128	0.0	52.8	57.6	105.6	115.2	60-140	8.7	20
1,2,4-Trichlorobenzene	5	ND	21.0	105.0	67-122	0.0	53.4	56.5	106.8	113.0	60-140	5.6	20
Hexachlorobutadiene	5	ND	23.3	116.5	68-138	0.0	58.1	59.5	116.2	119.0	60-140	2.4	20
Naphthalene	10	ND	19.3	96.5	51-138	0.0	51.0	56.8	102.0	113.6	60-140	10.8	20
1,2,3-Trichlorobenzene	5	ND	20.9	104.5	52-137	0.0	53.7	57.4	107.4	114.8	60-140	6.7	20
Styrene	5	ND	21.5	107.5	70-120	0.0	52.3	54.3	104.6	108.6	60-140	3.8	20
Acetone	100	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Freon 113	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	5	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	100	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	10	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	10	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloroethylvinylether	10	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	10	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

KEMRON ENVIRONMENTAL SERVICES
VOLATILE ORGANICS
QUALITY CONTROL / METHOD 8260

Run Date:	03/17/98	BLK FLNM:	2BK23266	Sample Num:	03-136-01	LCS DF:	1
Instrument ID:	HPMS_2	LCS FLNM:	2LC23267.D	File Name:	2CU23268	SMPL DF:	5
Analyst Initials:	MDA	Shift (am/pm):	AM	MS FLNM:	2CU23269	MS DF:	5
Workgroup #:	WG37852			MSD FLNM:	2CU23270	MSD DF:	5

Target Analytes	REPORTING DETECTION LIMIT ug/kg	METHOD BLANK ug/kg	LCS 20 PPB ug/kg	LCS PERCENT RECOVERY %	LCS ADVISORY LIMIT %	SAMPLE RESULT ug/kg	MS RESULT 50 PPB ug/kg	MSD RESULT 50 PPB ug/kg	MS % REC %	MSD % REC %	MS/MSD ADVISORY LIMIT %	MS/MSD % RPD %	RPD ADVISORY LIMIT %
dichlorodifluoromethane	10	ND	13.4	67	22 - 167	0.0	33.7	39.1	67	78	60 - 140	15	20
vinyl chloride	10	ND	24.3	121	56 - 142	0.0	55.1	56.6	110	113	D - 251	3	20
chloromethane	10	ND	16.1	80	47 - 144	0.0	47.6	54.3	95	109	D - 273	13	20
bromomethane	10	ND	18.4	92	31 - 167	0.0	47.5	52.8	95	106	D - 242	10	20
chloroethane	10	ND	17.9	90	41 - 156	0.0	45.8	50.1	92	100	14 - 230	9	20
trichlorofluoromethane	10	ND	20.4	102	66 - 127	0.0	51.5	54.3	103	109	17 - 181	5	20
acetone	100	ND	17.0	85	50 - 150	0.0	36.3	41.1	73	82	50 - 150	12	20
1,1-dichloroethene	5	ND	21.4	107	67 - 130	0.0	54.7	57.1	109	114	D - 234	4	20
methylene chloride	5	ND	19.4	97	77 - 128	0.0	50.7	52.7	101	105	D - 221	4	20
carbon disulfide	5	ND	25.8	129	50 - 150	0.0	62.9	64.0	126	128	50 - 150	2	20
trans-1,2-dichloroethene	5	ND	22.9	114	79 - 122	0.0	58.4	61.6	117	123	54 - 156	5	20
vinyl acetate	10	ND	13.4	67	50 - 150	0.0	22.6	18.5	45	37	50 - 150	20	20
1,1-dichloroethane	5	ND	21.4	107	84 - 115	0.0	55.3	58.4	111	117	59 - 155	5	20
2-butanone	100	ND	17.3	86	50 - 150	0.0	39.7	45.7	79	91	50 - 150	14	20
2,2-dichloropropane	5	ND	21.9	110	82 - 114	0.0	56.9	58.2	114	116	60 - 140	2	20
cis- 1,2-dichloroethene	5	ND	20.8	104	84 - 120	0.0	55.1	58.3	110	117	60 - 140	6	20
chloroform	5	ND	21.7	108	85 - 116	0.0	55.6	58.5	111	117	51 - 138	5	20
bromochloromethane	5	ND	19.6	98	83 - 117	0.0	52.1	55.6	104	111	60 - 140	7	20
1,1,1-trichloroethane	5	ND	22.2	111	84 - 112	0.0	59.2	62.3	118	125	52 - 162	5	20
1,1-dichloropropene	5	ND	23.4	117	92 - 119	0.0	57.3	59.9	115	120	60 - 140	4	20
carbon tetrachloride	5	ND	22.7	113	85 - 111	0.0	57.9	60.3	116	121	70 -140	4	20
1,2-dichloroethane	5	ND	21.3	107	87 - 118	0.0	56.1	59.7	112	119	49 - 155	6	20
benzene	5	ND	20.8	104	88 - 112	0.0	52.1	54.6	104	109	37 - 151	5	20

Run Date:	3/17/98	BLK FLNM:	2BK23266	Sample Num:	03-136-01	LCS DF:	1
Instrument ID:	HPMS_2	LCS FLNM:	2LC23267.D	File Name:	2CU23268	SMPL DF:	5
Analyst Initials:	MDA	Shift (am/pm):	AM	MS FLNM:	2CU23269	MS DF:	5
				MSD FLNM:	2CU23270	MSD DF:	5

	REPORTING DETECTION LIMIT	METHOD BLANK	LCS 20 PPB	LCS PERCENT RECOVERY	LCS ADVISORY LIMIT	SAMPLE RESULT	MS RESULT 50 PPB	MSD RESULT 50 PPB	MS % REC	MSD % REC	MS/MSD ADVISORY LIMIT	MS/MSD % RPD	RPD ADVISORY LIMIT
Target Analytes	ug/kg	ug/kg	ug/kg	%	%	ug/kg	ug/kg	ug/kg	%	%	%	%	%
trichloroethene	5	ND	21.0	105	87 - 119	26.9	92.1	112.5	131	171	71 - 157	20	20
1,2-dichloropropane	5	ND	20.6	103	94 - 121	0.0	51.8	54.4	104	109	D - 210	5	20
bromodichloromethane	5	ND	22.2	111	88 - 116	0.0	57.3	60.5	115	121	35 - 155	5	20
dibromomethane	5	ND	20.1	101	85 - 118	0.0	52.0	56.8	104	114	60 - 140	9	20
2-chloroethylvinylether	10	ND	20.8	104	50 - 150	0.0	41.9	56.2	84	112	50 - 150	29	20
4-methyl-2-pentanone	10	ND	17.9	89	50 - 150	0.0	41.0	47.3	82	95	50 - 150	14	20
cis-1,3-dichloropropene	5	ND	21.7	109	86 - 121	0.0	55.4	58.5	111	117	D - 227	6	20
toluene	5	ND	21.0	105	84 - 113	0.0	53.3	55.5	107	111	47 - 150	4	20
trans-1,3-dichloropropene	5	ND	21.1	106	82 - 122	0.0	54.9	56.7	110	113	17 - 183	3	20
2-hexanone	10	ND	16.2	81	50 - 150	0.0	37.1	42.4	74	85	50 - 150	13	20
1,1,2-trichloroethane	5	ND	20.5	103	86 - 124	0.0	52.0	55.5	104	111	52 - 150	7	20
1,3-dichloropropane	5	ND	20.5	103	80 - 122	0.0	52.7	55.5	105	111	60 - 140	5	20
tetrachloroethene	5	ND	21.2	106	79 - 114	7.1	61.8	66.2	109	118	64 - 148	7	20
dibromochloromethane	5	ND	21.0	105	77 - 119	0.0	55.1	57.3	110	115	53 - 149	4	20
1,2-dibromoethane	5	ND	20.6	103	76 - 123	0.0	53.2	56.9	106	114	60 - 140	7	20
chlorobenzene	5	ND	21.0	105	80 - 116	0.0	52.7	55.1	105	110	37 - 160	4	20
1,1,1,2-tetrachloroethane	5	ND	21.4	107	80 - 120	0.0	55.8	57.4	112	115	60 - 140	3	20
ethylbenzene	5	ND	21.9	109	77 - 119	0.0	53.6	56.1	107	112	37 - 162	5	20
m+p-xylene	5	ND	42.0	105	78 - 119	0.0	105.6	110.3	106	110	60 - 140	4	20
o-xylene	5	ND	21.3	106	78 - 119	0.0	53.1	55.3	106	111	60 - 140	4	20
styrene	5	ND	21.3	106	75 - 117	0.0	52.8	55.5	106	111	60 - 140	5	20
isopropyl-benzene	5	ND	21.9	109	88 - 138	0.0	54.2	55.9	108	112	60 - 140	3	20
bromoform	5	ND	19.2	96	76 - 126	0.0	51.2	54.4	102	109	45 - 169	6	20
1,1,2,2-tetrachloroethane	5	ND	19.5	97	76 - 140	0.0	46.3	47.2	93	94	46 - 157	2	20
1,2,3-trichloropropane	5	ND	19.9	99	74 - 140	0.0	51.9	56.8	104	114	60 - 140	9	20
propyl-benzene	5	ND	21.4	107	86 - 118	0.0	54.2	55.5	108	111	60 - 140	2	20
bromobenzene	5	ND	20.4	102	82 - 123	0.0	53.5	56.3	107	113	60 - 140	5	20

Run Date:	3/17/98	BLK FLNM:	2BK23266	Sample Num:	03-136-01	LCS DF:	1
Instrument ID:	HPMS_2	LCS FLNM:	2LC23267.D	File Name:	2CU23268	SMPL DF:	5
Analyst Initials:	MDA	Shift (am/pm):	AM	MS FLNM:	2CU23269	MS DF:	5
				MSD FLNM:	2CU23270	MSD DF:	5

Target Analytes	REPORTING DETECTION LIMIT ug/kg	METHOD BLANK ug/kg	LCS 20 PPB ug/kg	LCS PERCENT RECOVERY %	LCS ADVISORY LIMIT %	SAMPLE RESULT ug/kg	MS RESULT 50 PPB ug/kg	MSD RESULT 50 PPB ug/kg	MS % REC %	MSD % REC %	MS/MSD ADVISORY LIMIT %	MS/MSD % RPD %	RPD ADVISORY LIMIT %
1,3,5-trimethylbenzene	5	ND	22.1	110	84 - 118	0.0	56.1	57.7	112	115	60 - 140	3	20
2-chlorotoluene	5	ND	23.0	115	83 - 122	0.0	53.0	59.4	106	119	60 - 140	11	20
4-chlorotoluene	5	ND	19.6	98	81 - 124	0.0	56.6	52.8	113	106	60 - 140	7	20
tert-butyl-benzene	5	ND	21.8	109	83 - 122	0.0	56.1	57.5	112	115	60 - 140	2	20
1,2,4-trimethylbenzene	5	ND	22.1	110	82 - 119	0.0	57.2	58.6	114	117	60 - 140	2	20
sec-butyl-benzene	5	ND	22.1	110	86 - 119	0.0	55.0	55.4	110	111	60 - 140	1	20
para-isopropyl-toluene	5	ND	21.9	109	86 - 122	0.0	54.1	54.6	108	109	60 - 140	1	20
1,3-dichlorobenzene	5	ND	21.5	107	86 - 116	0.0	54.1	55.1	108	110	59 - 156	2	20
1,4-dichlorobenzene	5	ND	20.7	104	86 - 117	0.0	53.5	54.6	107	109	18 - 190	2	20
n-butyl-benzene	5	ND	22.6	113	83 - 122	0.0	54.0	54.2	108	108	60 - 140	0	20
1,2-dichlorobenzene	5	ND	21.1	106	84 - 118	0.0	53.4	54.9	107	110	18 - 190	3	20
,2-dibromo-3-chloropropan	5	ND	17.9	90	63 - 149	0.0	46.1	52.3	92	105	60 - 140	13	20
1,2,4-trichlorobenzene	5	ND	21.2	106	69 - 127	0.0	47.9	49.1	96	98	60 - 140	3	20
hexachlorobutadiene	5	ND	23.7	118	82 - 139	0.0	48.6	46.6	97	93	60 - 140	4	20
naphthalene	10	ND	19.0	95	56 - 141	0.0	45.7	50.0	91	100	60 - 140	9	20
1,2,3-trichlorobenzene	5	ND	21.2	106	34 - 161	0.0	45.7	47.6	91	95	60 - 140	4	20
RESERVED													
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KEMRON ENVIRONMENTAL SERVICES, INC.

MARIETTA, OH

QUALITY CONTROL / METHOD 8260 SOIL EXTRACTIONS

RUN DATE:	03/17/98	BLK FLNM:	1BK26675	SMPL NAME:	03-136-02
EXTRACT DATE	03/17/98	LCS FLNM:	1QC26676	SMPL DF:	125
INSTRUMENT:	HPMS_1	SHIFT:	AM	FILE NAME:	1CC26677
ANALYST(S):	CMS	WORK GROUP:	WG37842	DUP FLNM:	1CC26680

VOA COMPOUND	PRACTICAL QUANTITATION LIMIT (PQL) ug/Kg	METHOD BLANK ug/Kg	LCS 20 ug/Kg ug/Kg	LCS PERCENT RECOVERY %	CONTROL LIMITS %REC	SAMPLE RESULT ug/Kg	SAMPLE DUP ug/Kg	PERCENT RPD	ADVISORY LIMITS %
Dichlorodifluoromethane	10	ND	6.8	34.0	D - 132	0.0	0.0	#DIV/0!	20
Chloromethane	10	ND	13.6	68.0	20-142	0.0	0.0	#DIV/0!	20
Vinyl chloride	10	ND	16.0	80.0	24-134	0.0	0.0	#DIV/0!	20
Bromomethane	10	ND	11.1	55.5	13-154	0.0	0.0	#DIV/0!	20
Chloroethane	10	ND	17.8	89.0	6-155	0.0	0.0	#DIV/0!	20
Trichlorofluoromethane	10	ND	19.3	96.5	D-151	0.0	0.0	#DIV/0!	20
1,1-Dichloroethene	5	ND	24.5	122.5	43-140	0.0	0.0	#DIV/0!	20
Methylene chloride	5	ND	22.2	111.0	32-135	0.0	0.0	#DIV/0!	20
trans-1,2-Dichloroethene	5	ND	24.9	124.5	52-121	0.0	0.0	#DIV/0!	20
1,1-Dichloroethane	5	ND	23.4	117.0	63-113	0.0	0.0	#DIV/0!	20
2,2-Dichloropropane	5	ND	23.1	115.5	59-121	0.0	0.0	#DIV/0!	20
cis-1,2-Dichloroethene	5	ND	22.7	113.5	60-118	0.0	0.0	#DIV/0!	20
Bromochloromethane	5	ND	25.0	125.0	61-118	0.0	0.0	#DIV/0!	20
Chloroform	5	ND	23.5	117.5	69-114	0.0	0.0	#DIV/0!	20
1,1,1-Trichloroethane	5	ND	23.9	119.5	62-111	0.0	0.0	#DIV/0!	20
1,1-Dichloropropene	5	ND	24.9	124.5	71-123	0.0	0.0	#DIV/0!	20
Carbon tetrachloride	5	ND	24.1	120.5	42-126	0.0	0.0	#DIV/0!	20
1,2-Dichloroethane	5	ND	23.7	118.5	70-124	0.0	0.0	#DIV/0!	20
Benzene	5	ND	22.0	110.0	66-118	0.0	0.0	#DIV/0!	20
Trichloroethene	5	ND	24.9	124.5	64-121	24.2	22.8	6.0	20
1,2-Dichloropropane	5	ND	23.1	115.5	67-134	0.0	0.0	#DIV/0!	20
Bromodichloromethane	5	ND	25.4	127.0	54-128	0.0	0.0	#DIV/0!	20
Dibromomethane	5	ND	25.9	129.5	68-125	0.0	0.0	#DIV/0!	20
cis-1,3-Dichloropropene	5	ND	25.5	127.5	56-131	0.0	0.0	#DIV/0!	20
Toluene	5	ND	22.3	111.5	61-120	0.0	0.0	#DIV/0!	20
trans-1,3-Dichloropropene	5	ND	22.8	114.0	48-133	0.0	0.0	#DIV/0!	20
1,1,2-Trichloroethane	5	ND	23.2	116.0	53-136	0.0	0.0	#DIV/0!	20
1,3-Dichloropropane	5	ND	22.4	112.0	60-118	0.0	0.0	#DIV/0!	20
Tetrachloroethene	5	ND	23.2	116.0	63-120	0.0	0.0	#DIV/0!	20
Dibromochloromethane	5	ND	23.4	117.0	53-112	0.0	0.0	#DIV/0!	20
1,2-Dibromoethane	5	ND	23.4	117.0	62-111	0.0	0.0	#DIV/0!	20
Chlorobenzene	5	ND	23.8	119.0	66-119	0.0	0.0	#DIV/0!	20
1,1,1,2-Tetrachloroethane	5	ND	23.9	119.5	50-117	0.0	0.0	#DIV/0!	20
Ethylbenzene	5	ND	24.8	124.0	52-112	0.0	0.0	#DIV/0!	20
m+p-Xylene	5	ND	47.4	118.5	62-122	0.0	0.0	#DIV/0!	20
o-Xylene	5	ND	23.9	119.5	56-111	0.0	0.0	#DIV/0!	20

KEMRON ENVIRONMENTAL SERVICES, INC.

MARIETTA, OH

QUALITY CONTROL / METHOD 8260 SOIL EXTRACTIONS

RUN DATE:	03/17/98	BLK FLNM:	1BK26675	SMPL NAME:	03-136-02
EXTRACT DATE	03/17/98	LCS FLNM.	1QC26676	SMPL DF:	125
INSTRUMENT:	HPMS_1	SHIFT:	AM	FILE NAME:	1CC26677
ANALYST(S):	CMS	WORK GROUP:	WG37842	DUP FLNM:	1CC26680

VOA COMPOUND	PRACTICAL QUANTITATION LIMIT (PQL) ug/Kg	METHOD BLANK ug/Kg	LCS 20 ug/Kg ug/Kg	LCS PERCENT RECOVERY %	CONTROL LIMITS %REC	SAMPLE RESULT ug/Kg	SAMPLE DUP ug/Kg	PERCENT RPD	ADVISORY LIMITS %
Isopropylbenzene	5	ND	24.5	122.5	67-133	0 0	0.0	#DIV/0!	20
Bromoform	5	ND	23 4	117.0	47-129	0 0	0.0	#DIV/0!	20
1,1,2,2-Tetrachloroethane	5	ND	21.0	105.0	64-139	0.0	0.0	#DIV/0!	20
1,2,3-Trichloropropane	5	ND	22.0	110.0	72-136	0.0	0.0	#DIV/0!	20
propyl-benzene	5	ND	23.3	116.5	67-118	0.0	0.0	#DIV/0!	20
Bromobenzene	5	ND	22.9	114.5	61-120	0 0	0.0	#DIV/0!	20
1,3,5-Trimethylbenzene	5	ND	24.0	120.0	71-120	0.0	0.0	#DIV/0!	20
2-Chlorotoluene	5	ND	21 9	109 5	67-121	0.0	0.0	#DIV/0!	20
4-Chlorotoluene	5	ND	24.1	120 5	58-130	0 0	0.0	#DIV/0!	20
tert-butyl-benzene	5	ND	23.2	116.0	72-114	0.0	0.0	#DIV/0!	20
1,2,4-Trimethylbenzene	5	ND	23 4	117.0	73-125	0.0	0.0	#DIV/0!	20
sec-butyl-benzene	5	ND	24.1	120 5	75-115	0 0	0.0	#DIV/0!	20
p-isopropyl-toluene	5	ND	23.8	119.0	77-117	0.0	0.0	#DIV/0!	20
1,3-Dichlorobenzene	5	ND	23 2	116.0	69-118	0.0	0.0	#DIV/0!	20
1,4-Dichlorobenzene	5	ND	22.9	114.5	65-122	0.0	0.0	#DIV/0!	20
n-butyl-benzene	5	ND	24.8	124 0	73-130	0.0	0.0	#DIV/0!	20
1,2-Dichlorobenzene	5	ND	22.7	113.5	65-124	0.0	0.0	#DIV/0!	20
1,2-dibromo-3-chloropropane	5	ND	20.5	102.5	55-141	0.0	0.0	#DIV/0!	20
1,2,4-Trichlorobenzene	5	ND	23.8	119.0	68-118	0.0	0.0	#DIV/0!	20
Hexachlorobutadiene	5	ND	26.7	133.5	75-143	0.0	0.0	#DIV/0!	20
Naphthalene	10	ND	20.8	104.0	55-144	0.0	0.0	#DIV/0!	20
1,2,3-Trichlorobenzene	5	ND	23.0	115.0	64-119	0.0	0.0	#DIV/0!	20
Styrene	5	ND	23.3	116.5	60-140	0.0	0.0	#DIV/0!	20
Acetone	100	ND	NA	NA	NA	NA	NA	NA	NA
Iodomethane	NA	ND	NA	NA	NA	NA	NA	NA	NA
Freon 113	NA	ND	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	5	ND	NA	NA	NA	NA	NA	NA	NA
2-Butanone	100	ND	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	10	ND	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	10	ND	NA	NA	NA	NA	NA	NA	NA
2-Chloroethylvinylether	10	ND	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	10	ND	NA	NA	NA	NA	NA	NA	NA

KEMRON Environmental Services, Inc.
LIST OF VALID QUALIFIERS (qual)
March 9, 1998

Qualifier	Description
(A)	See the report narrative
(B)	See the report narrative
(C)	See the report narrative
+	Correlation coefficient for the MSA is less than 0.995
<	Less than
>	Greater than
B	Present in the method blank
C	Confirmed by GC/MS
*	Surrogate or spike compound out of range
CG	Confluent growth
D	The analyte was quantified at a secondary dilution factor
DL	Surrogate or spike was diluted out
E	Estimated concentration due to sample matrix interference
F	Present below nominal reporting limit (AFCEE only)
FL	Free liquid
I	Semiquantitative result, out of instrument calibration range
J	Present below nominal reporting limit
L	Sample reporting limits elevated due to matrix interference
M	Duplicate injection precision not met

Qualifier	Description
N	Tentatively Identified Compound (TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL)
NF	Not found
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentration > 25% difference between the two GC columns
QNS	Quantity not sufficient to perform analysis
R	Analyte exceeds regulatory limit
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TNTC	Too numerous to count
U	Analyzed for but not detected
W	Post-digestion spike for furnace AA out of control limits
X	Can not be resolved from isomer. See below.

Special Notes for Organic Analytes

1. Acrolein and acrylonitrile by method 624 are semiquantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.

Order #: 98-03-136
March 20, 1998 01:28 pm

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Analyst	Date Collected	Run Date	Run Time	Department
WG37706	R42953	L9803136-01		Soil	Percent Solids	D2216-90	MZL	03-MAR-1998	13-MAR-1998	08:45	Conventionals
WG37706	R42953	L9803136-02		Soil	Percent Solids	D2216-90	MZL	03-MAR-1998	13-MAR-1998	08:45	Conventionals
WG37706	R42953	L9803136-05		Soil	Percent Solids	D2216-90	MZL	05-MAR-1998	13-MAR-1998	08:45	Conventionals
WG37765	R42996	L9803136-03		Water	Volatile Organics	8260A	CMS	03-MAR-1998	16-MAR-1998	15:39	Volatile - GC/MS
WG37765	R42996	L9803136-04		Water	Volatile Organics	8260A	CMS	05-MAR-1998	16-MAR-1998	16:16	Volatile - GC/MS
WG37765	R42996	L9803136-06		Water	Volatile Organics	8260A	CMS	05-MAR-1998	16-MAR-1998	16:53	Volatile - GC/MS
WG37842	R43119	L9803136-02		Soil	Volatile Organics	8260A	CMS	03-MAR-1998	17-MAR-1998	11:06	Volatile - GC/MS
WG37842	R43119	L9803136-05		Soil	Volatile Organics	8260A	CMS	05-MAR-1998	17-MAR-1998	11:42	Volatile - GC/MS
WG37852	R43067	L9803136-01		Soil	Volatile Organics	8260A	SLT	03-MAR-1998	17-MAR-1998	17:38	Volatile - GC/MS

KEMRON ANALYST LIST

Ohio Valley Laboratory

03/12/98

ALC - - Ann L. Clark
BWH - - Ben W. Haynes
CEB - - Chad E. Barnes
CLH - - Chris L. Hurst
CMS - - Crystal M. Stevens
CRC - - Carla R. Cochran
DIH - - Deanna I. Hesson
DLN - - Deanna L. Norton
DLP - - Dorothy L. Payne
DST - - Dennis S. Tepe
ECL - - Eric C. Lawson
EDG - - Eric D. Gerkin
FEH - - Fay E. Harmon
HV - - Hema Vilasagar
JKM - - June K. Morris
JLH - - Janice L. Holland
JMM - - Jim M. Monk
JWR - - John W. Richards
JYH - - Ji Y. Hu
KHA - - Kim H. Archer
KMM - - Kevin M. McDonald
KRA - - Kathy R. Albertson
MAR - - MaryAnn Roach
MDA - - Mike D. Albertson
MDC - - Michael D. Cochran
MES - - Mary E. Schiling
MLS - - Michael L. Schimmel
MMB - - Maren M. Beery
MZL - - Melanie Z. Lewis
RDC - - Rebecca D. Cutlip
RDS - - Rebecca D. Sutton
REF - - Ron E. Fertile
REK - - Robert E. Kyer
RSS - - Regina S. Simmons
RWC - - Rodney W. Campbell
SJM - - Shawn J. Marshall
SLP - - Sheri L. Pfalzgraf
SLT - - Stephanie L. Tepe
SPL - - Steve P. Learn
TLD - - Teresa L. Davis
VC - - Vicki Collier
WCD - - Wade C. Dawson

CHRYSLER CORPORATION

Chain-of-Custody

00928 A

CompuChem 501 Madison Avenue Cary, NC 27513 Phone Number: 1-800-833-5097 Fax Number: (919) 379-4050	Project Name: Dayton Thermal, Building 40B Site Location: Dayton, OH Site Code: SC001 RFA Number: YGQP98 00208-T Chrysler PM: Gary Stanczuk	Consultant: Ken Vogel - Leggette, Brashears & Graham, Inc. Address: 1210 W. County Rd E, Suite 700 St Paul MN 55112 Consultant PM: Ken Vogel Phone: 612-490 7405 Fax: -1006	

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
(10 days)
28 days

Data Package Deliverables: (circle)
(Chrysler Level 1)
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
(S - Soil) SW - Surface Water
GW - Groundwater A - Air
Sed. - Sediment
(O) Other (specify) DI H_2O

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	SW 8260 - TCL - VOC GC/MS - 40 ml jars	SW 8260 VOC - TCL GC/MS - TCLP - 40 ml	SW 8260 VOC - TCL GC/MS - 40 ml VOA vials							Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
AS (3-5')	3/3/98	1100	G	S	2	✓	✓												Begin SDG 208-A
AS (31-33')	3/3/98	1615	G	S	2	✓	✓												
FB030398-208A	3/3/98	1600	G	O	2			✓											
TB 030598-208A	—	—	G	O	1			✓											
SVE (2-4')	3/5/98	1400	G	S	2	✓	✓												
FB 030598-208A	3/5/98	1800	O	O	2			✓											END SDG 208-A

Sampler(s) Kai Hansen

Cooler ID # _____

Is RFA sampling complete? Yes (No)

Bottles Reliquished under Airbill No. 4287 4953 7751

Samples Relinquished under Airbill No. FedEx 8024953322

Temperature (corrected) ___ C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Kai Hansen	3/5/98	1950				Yes No
						Yes No
			Received for Laboratory by: Brenda Gregory	3/6/98	1015	(Yes) No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

COC Sealed
Sp intact
Cooler Temp 3.0
big

Revision No 1
Created September 23, 1997

AFFIDAVIT ON BEHALF OF CERTIFIED LABORATORY

I, David Bumgarner, being duly sworn on oath, state that, to the best of my knowledge, information, and belief:

1. I am authorized to submit this affidavit on behalf of KEMRON Environmental Services, Inc., which has been engaged as a Certified Laboratory for purposes of a voluntary action pursuant to Ohio's Voluntary Action Program.

2. The voluntary action is being conducted at the Dayton Thermal property located at 1600 Webster St. Dayton, OH 45401

3. KEMRON Environmental Services, Inc. was a Certified Laboratory pursuant to Ohio Revised Code (ORC) Chapter 3746 and Ohio Administrative Code (OAC) Chapter 3745-300 when it performed the analyses for the purposes of conducting or completing the voluntary action.

4. All of the analyses performed by KEMRON Environmental Services, Inc. for purposes of conducting or completing the voluntary action complied with the applicable requirements of ORC Chapter 3746 and rules adopted under OAC Chapter 3745-300.

5. The following information, data, documents, and/or reports, attached hereto, are being submitted with this affidavit (attach additional pages if more space is needed):

(a) Report No.: L9803172;

(b) _____;

(c) _____.

6. All of the information, data, documents, and/or reports submitted with this affidavit are true, accurate, and complete.

7. KEMRON Environmental Services, Inc. has no conflict of interest, as set forth in OAC rules 3745-300-04(I)(5) and 3745-300-05 (F)(3), in performing the analyses referred to in this affidavit.

FURTHER AFFIANT SAYETH NOT.

David T. Bumgarner
(Signature)

Subscribed and sworn before me
this 25 day of March, 1998

Lucinda Sue Arnold
Notary Public

My commission expires: 06/16/2002

LUCINDA SUE ARNOLD
NOTARY PUBLIC, STATE OF OHIO
MY COMMISSION EXPIRES 6/16/2002

KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (614) 373-4071

CompuChem
501 Madison Avenue
Cary, NC 27513

Attention: Cathy Dover

PO Number:
Account Number: COMPUCHEM-529

Login #: L9803172
Report Date: 03/24/98
Work ID: SDG-208B/DAYTON THERM. BLD.40B
Date Received: 03/10/98

SAMPLE IDENTIFICATION

Sample Number	Sample Description

EPA Region 5 Records Ctr.
350040

Login #L9803172
March 24, 1998 02:55 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9803172-01
Client Sample ID: FB030698-208B
Site/Work ID: SDG-208B/DAYTON THERM. BLD.40B
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/06/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/20/98 Time: 10:29

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU06523

Method: 8260A
Run ID: R43179

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/L	2.5	J	100	1
71-43-2	Benzene	ug/L		ND	5.0	1
108-86-1	Bromobenzene	ug/L		ND	5.0	1
74-97-5	Bromochloromethane	ug/L		ND	5.0	1
75-27-4	Bromodichloromethane	ug/L		ND	5.0	1
75-25-2	Bromoform	ug/L		ND	5.0	1
74-83-9	Bromomethane	ug/L		ND	10	1
78-93-3	2-Butanone	ug/L	0.95	J	100	1
104-51-8	n-Butylbenzene	ug/L		ND	5.0	1
135-98-8	sec-Butylbenzene	ug/L		ND	5.0	1
98-06-6	tert-Butylbenzene	ug/L		ND	5.0	1
75-15-0	Carbon disulfide	ug/L		ND	5.0	1
56-23-5	Carbon tetrachloride	ug/L		ND	5.0	1
108-90-7	Chlorobenzene	ug/L		ND	100	1
124-48-1	Chlorodibromomethane	ug/L		ND	5.0	1
75-00-3	Chloroethane	ug/L		ND	10	1
110-75-8	2-Chloroethyl vinyl ether	ug/L		ND	10	1
67-66-3	Chloroform	ug/L		ND	5.0	1
74-87-3	Chloromethane	ug/L		ND	10	1
95-49-8	2-Chlorotoluene	ug/L		ND	5.0	1
106-43-4	4-Chlorotoluene	ug/L		ND	5.0	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/L		ND	5.0	1
106-93-4	1,2-Dibromoethane	ug/L		ND	5.0	1
74-95-3	Dibromomethane	ug/L		ND	5.0	1
95-50-1	1,2-Dichlorobenzene	ug/L		ND	600	1
541-73-1	1,3-Dichlorobenzene	ug/L		ND	5.0	1
106-46-7	1,4-Dichlorobenzene	ug/L		ND	75	1
75-71-8	Dichlorodifluoromethane	ug/L		ND	10	1
75-34-3	1,1-Dichloroethane	ug/L		ND	5.0	1
107-06-2	1,2-Dichloroethane	ug/L		ND	5.0	1
75-35-4	1,1-Dichloroethene	ug/L		ND	7.0	1
156-59-2	cis-1,2-Dichloroethene	ug/L		ND	70	1
156-60-5	trans-1,2-Dichloroethene	ug/L		ND	100	1
78-87-5	1,2-Dichloropropane	ug/L		ND	5.0	1
142-28-9	1,3-Dichloropropane	ug/L		ND	5.0	1
594-20-7	2,2-Dichloropropane	ug/L		ND	5.0	1
10061-01-5	cis-1,3-Dichloropropene	ug/L		ND	5.0	1
10061-02-6	trans-1,3-Dichloropropene	ug/L		ND	5.0	1
563-58-6	1,1-Dichloropropene	ug/L		ND	5.0	1

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9803172-01
Client Sample ID: FB030698-208B
Site/Work ID: SDG-208B/DAYTON THERM. BLD.40B
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/06/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/20/98 Time: 10:29

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU06523

Method: 8260A
Run ID: R43179

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/L		ND	700	1
591-78-6	2-Hexanone	ug/L		ND	10	1
87-68-3	Hexachlorobutadiene	ug/L		ND	5.0	1
98-82-8	Isopropylbenzene	ug/L		ND	5.0	1
99-87-6	p-Isopropyltoluene	ug/L		ND	5.0	1
108-10-1	4-Methyl-2-pentanone	ug/L		ND	10	1
75-09-2	Dichloromethane	ug/L		ND	5.0	1
91-20-3	Naphthalene	ug/L		ND	10	1
103-65-1	n-Propylbenzene	ug/L		ND	5.0	1
100-42-5	Styrene	ug/L		ND	100	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/L		ND	5.0	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/L		ND	5.0	1
127-18-4	Tetrachloroethene	ug/L		ND	5.0	1
108-88-3	Toluene	ug/L		ND	1000	1
87-61-6	1,2,3-Trichlorobenzene	ug/L		ND	5.0	1
120-82-1	1,2,4-Trichlorobenzene	ug/L		ND	70	1
71-55-6	1,1,1-Trichloroethane	ug/L		ND	200	1
79-00-5	1,1,2-Trichloroethane	ug/L		ND	5.0	1
79-01-6	Trichloroethene	ug/L		ND	5.0	1
75-69-4	Trichlorofluoromethane	ug/L		ND	10	1
96-18-4	1,2,3-Trichloropropane	ug/L		ND	5.0	1
95-63-6	1,2,4-Trimethylbenzene	ug/L		ND	5.0	1
108-67-8	1,3,5-Trimethylbenzene	ug/L		ND	5.0	1
108-05-4	Vinyl acetate	ug/L		ND	10	1
75-01-4	Vinyl chloride	ug/L		ND	2.0	1
1330-20-7	Xylenes, Total	ug/L		ND	10000	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	94.0	(86 - 118%)
1,2-Dichloroethane-d4	94.2	(80 - 120%)
Toluene-d8	104	(88 - 110%)
4-Bromofluorobenzene	109	(86 - 115%)

Login #L9803172
March 24, 1998 02:55 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9803172-02
Client Sample ID: FB030998-208B
Site/Work ID: SDG-208B/DAYTON THERM. BLD.40B
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/09/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/19/98 Time: 17:38

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU06511

Method: 8260A
Run ID: R43196

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/L	2.2	J	100	1
71-43-2	Benzene	ug/L		ND	5.0	1
108-86-1	Bromobenzene	ug/L		ND	5.0	1
74-97-5	Bromochloromethane	ug/L		ND	5.0	1
75-27-4	Bromodichloromethane	ug/L		ND	5.0	1
75-25-2	Bromoform	ug/L		ND	5.0	1
74-83-9	Bromomethane	ug/L		ND	10	1
78-93-3	2-Butanone	ug/L		ND	100	1
104-51-8	n-Butylbenzene	ug/L		ND	5.0	1
135-98-8	sec-Butylbenzene	ug/L		ND	5.0	1
98-06-6	tert-Butylbenzene	ug/L		ND	5.0	1
75-15-0	Carbon disulfide	ug/L		ND	5.0	1
56-23-5	Carbon tetrachloride	ug/L		ND	5.0	1
108-90-7	Chlorobenzene	ug/L		ND	100	1
124-48-1	Chlorodibromomethane	ug/L		ND	5.0	1
75-00-3	Chloroethane	ug/L		ND	10	1
110-75-8	2-Chloroethyl vinyl ether	ug/L		ND	10	1
67-66-3	Chloroform	ug/L		ND	5.0	1
74-87-3	Chloromethane	ug/L		ND	10	1
95-49-8	2-Chlorotoluene	ug/L		ND	5.0	1
106-43-4	4-Chlorotoluene	ug/L		ND	5.0	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/L		ND	5.0	1
106-93-4	1,2-Dibromoethane	ug/L		ND	5.0	1
74-95-3	Dibromomethane	ug/L		ND	5.0	1
95-50-1	1,2-Dichlorobenzene	ug/L		ND	600	1
541-73-1	1,3-Dichlorobenzene	ug/L		ND	5.0	1
106-46-7	1,4-Dichlorobenzene	ug/L		ND	75	1
75-71-8	Dichlorodifluoromethane	ug/L		ND	10	1
75-34-3	1,1-Dichloroethane	ug/L		ND	5.0	1
107-06-2	1,2-Dichloroethane	ug/L		ND	5.0	1
75-35-4	1,1-Dichloroethene	ug/L		ND	7.0	1
156-59-2	cis-1,2-Dichloroethene	ug/L		ND	70	1
156-60-5	trans-1,2-Dichloroethene	ug/L		ND	100	1
78-87-5	1,2-Dichloropropane	ug/L		ND	5.0	1
142-28-9	1,3-Dichloropropane	ug/L		ND	5.0	1
594-20-7	2,2-Dichloropropane	ug/L		ND	5.0	1
10061-01-5	cis-1,3-Dichloropropene	ug/L		ND	5.0	1
10061-02-6	trans-1,3-Dichloropropene	ug/L		ND	5.0	1
563-58-6	1,1-Dichloropropene	ug/L		ND	5.0	1

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9803172-02
Client Sample ID: FB030998-208B
Site/Work ID: SDG-208B/DAYTON THERM. BLD.40B
Matrix: Water

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/09/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/19/98 Time: 17:38

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU06511

Method: 8260A
Run ID: R43196

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/L		ND	700	1
591-78-6	2-Hexanone	ug/L		ND	10	1
87-68-3	Hexachlorobutadiene	ug/L		ND	5.0	1
98-82-8	Isopropylbenzene	ug/L		ND	5.0	1
99-87-6	p-Isopropyltoluene	ug/L		ND	5.0	1
108-10-1	4-Methyl-2-pentanone	ug/L		ND	10	1
75-09-2	Dichloromethane	ug/L	1.0	J	5.0	1
91-20-3	Naphthalene	ug/L		ND	10	1
103-65-1	n-Propylbenzene	ug/L		ND	5.0	1
100-42-5	Styrene	ug/L		ND	100	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/L		ND	5.0	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/L		ND	5.0	1
127-18-4	Tetrachloroethene	ug/L		ND	5.0	1
108-88-3	Toluene	ug/L		ND	1000	1
87-61-6	1,2,3-Trichlorobenzene	ug/L		ND	5.0	1
120-82-1	1,2,4-Trichlorobenzene	ug/L		ND	70	1
71-55-6	1,1,1-Trichloroethane	ug/L		ND	200	1
79-00-5	1,1,2-Trichloroethane	ug/L		ND	5.0	1
79-01-6	Trichloroethene	ug/L		ND	5.0	1
75-69-4	Trichlorofluoromethane	ug/L		ND	10	1
96-18-4	1,2,3-Trichloropropane	ug/L		ND	5.0	1
95-63-6	1,2,4-Trimethylbenzene	ug/L		ND	5.0	1
108-67-8	1,3,5-Trimethylbenzene	ug/L		ND	5.0	1
108-05-4	Vinyl acetate	ug/L		ND	10	1
75-01-4	Vinyl chloride	ug/L		ND	2.0	1
1330-20-7	Xylenes, Total	ug/L		ND	10000	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	101	(86 - 118%)
1,2-Dichloroethane-d4	105	(80 - 120%)
Toluene-d8	108	(88 - 110%)
4-Bromofluorobenzene	115	(86 - 115%)

Login #L9803172
March 24, 1998 02:55 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9803172-03
Client Sample ID: TB030998-208B
Site/Work ID: SDG-208B/DAYTON THERM. BLD.40B
Matrix: Water

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/19/98 Time: 18:13

Dil. Type: N/A
COC Info: N/A

Date Collected: 03/09/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU06512

Sample Weight: N/A
Extract Volume: N/A

% Solid: N/A

Method: 8260A
Run ID: R43196

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/L	2.3	J	100	1
71-43-2	Benzene	ug/L		ND	5.0	1
108-86-1	Bromobenzene	ug/L		ND	5.0	1
74-97-5	Bromochloromethane	ug/L		ND	5.0	1
75-27-4	Bromodichloromethane	ug/L		ND	5.0	1
75-25-2	Bromoform	ug/L		ND	5.0	1
74-83-9	Bromomethane	ug/L		ND	10	1
78-93-3	2-Butanone	ug/L		ND	100	1
104-51-8	n-Butylbenzene	ug/L		ND	5.0	1
135-98-8	sec-Butylbenzene	ug/L		ND	5.0	1
98-06-6	tert-Butylbenzene	ug/L		ND	5.0	1
75-15-0	Carbon disulfide	ug/L		ND	5.0	1
56-23-5	Carbon tetrachloride	ug/L		ND	5.0	1
108-90-7	Chlorobenzene	ug/L		ND	100	1
124-48-1	Chlorodibromomethane	ug/L		ND	5.0	1
75-00-3	Chloroethane	ug/L		ND	10	1
110-75-8	2-Chloroethyl vinyl ether	ug/L		ND	10	1
67-66-3	Chloroform	ug/L		ND	5.0	1
74-87-3	Chloromethane	ug/L		ND	10	1
95-49-8	2-Chlorotoluene	ug/L		ND	5.0	1
106-43-4	4-Chlorotoluene	ug/L		ND	5.0	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/L		ND	5.0	1
106-93-4	1,2-Dibromoethane	ug/L		ND	5.0	1
74-95-3	Dibromomethane	ug/L		ND	5.0	1
95-50-1	1,2-Dichlorobenzene	ug/L		ND	600	1
541-73-1	1,3-Dichlorobenzene	ug/L		ND	5.0	1
106-46-7	1,4-Dichlorobenzene	ug/L		ND	75	1
75-71-8	Dichlorodifluoromethane	ug/L		ND	10	1
75-34-3	1,1-Dichloroethane	ug/L		ND	5.0	1
107-06-2	1,2-Dichloroethane	ug/L		ND	5.0	1
75-35-4	1,1-Dichloroethene	ug/L		ND	7.0	1
156-59-2	cis-1,2-Dichloroethene	ug/L		ND	70	1
156-60-5	trans-1,2-Dichloroethene	ug/L		ND	100	1
78-87-5	1,2-Dichloropropane	ug/L		ND	5.0	1
142-28-9	1,3-Dichloropropane	ug/L		ND	5.0	1
594-20-7	2,2-Dichloropropane	ug/L		ND	5.0	1
10061-01-5	cis-1,3-Dichloropropene	ug/L		ND	5.0	1
10061-02-6	trans-1,3-Dichloropropene	ug/L		ND	5.0	1
563-58-6	1,1-Dichloropropene	ug/L		ND	5.0	1

KEMRON ENVIRONMENTAL SERVICES

Product: 826-VAP - Volatile Organics

Lab Sample ID: L9803172-03
Client Sample ID: TB030998-208B
Site/Work ID: SDG-208B/DAYTON THERM. BLD.40B
Matrix: Water

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/19/98 Time: 18:13

Dil. Type: N/A
COC Info: N/A

Date Collected: 03/09/98

Instrument: HPMS6
Analyst: SLT
Lab File ID: 6CU06512

Sample Weight: N/A
Extract Volume: N/A

% Solid: N/A

Method: 8260A
Run ID: R43196

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/L		ND	700	1
591-78-6	2-Hexanone	ug/L		ND	10	1
87-68-3	Hexachlorobutadiene	ug/L		ND	5.0	1
98-82-8	Isopropylbenzene	ug/L		ND	5.0	1
99-87-6	p-Isopropyltoluene	ug/L		ND	5.0	1
108-10-1	4-Methyl-2-pentanone	ug/L		ND	10	1
75-09-2	Dichloromethane	ug/L		ND	5.0	1
91-20-3	Naphthalene	ug/L		ND	10	1
103-65-1	n-Propylbenzene	ug/L		ND	5.0	1
100-42-5	Styrene	ug/L		ND	100	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/L		ND	5.0	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/L		ND	5.0	1
127-18-4	Tetrachloroethene	ug/L		ND	5.0	1
108-88-3	Toluene	ug/L		ND	1000	1
87-61-6	1,2,3-Trichlorobenzene	ug/L		ND	5.0	1
120-82-1	1,2,4-Trichlorobenzene	ug/L		ND	70	1
71-55-6	1,1,1-Trichloroethane	ug/L		ND	200	1
79-00-5	1,1,2-Trichloroethane	ug/L		ND	5.0	1
79-01-6	Trichloroethene	ug/L		ND	5.0	1
75-69-4	Trichlorofluoromethane	ug/L		ND	10	1
96-18-4	1,2,3-Trichloropropane	ug/L		ND	5.0	1
95-63-6	1,2,4-Trimethylbenzene	ug/L		ND	5.0	1
108-67-8	1,3,5-Trimethylbenzene	ug/L		ND	5.0	1
108-05-4	Vinyl acetate	ug/L		ND	10	1
75-01-4	Vinyl chloride	ug/L		ND	2.0	1
1330-20-7	Xylenes, Total	ug/L		ND	10000	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	101	(86 - 118%)
1,2-Dichloroethane-d4	104	(80 - 120%)
Toluene-d8	109	(88 - 110%)
4-Bromofluorobenzene	114	(86 - 115%)

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9803172-04
Client Sample ID: VMP-1 (1-3')
Site/Work ID: SDG-208B/DAYTON THERM. BLD.40B

Matrix: Soil
Collected: 03/06/98 650

% Solid: 86
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	86		1.0	1	N/A	DLN	03/23/98	10:00	D2216-90

Product: 8260 - Volatile Organics

Lab Sample ID: L9803172-04
Client Sample ID: VMP-1 (1-3')
Site/Work ID: SDG-208B/DAYTON THERM. BLD.40B
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/06/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: 86

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/18/98 Time: 14:46

Instrument: HPMS8
Analyst: MDA
Lab File ID: 8CC00638

Method: 8260A
Run ID: R43305

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone.....	ug/kg	21	J	580	5
71-43-2	Benzene.....	ug/kg		ND	29	5
108-86-1	Bromobenzene.....	ug/kg		ND	29	5
74-97-5	Bromochloromethane.....	ug/kg		ND	29	5
75-27-4	Bromodichloromethane.....	ug/kg		ND	29	5
75-25-2	Bromoform.....	ug/kg		ND	29	5
74-83-9	Bromomethane.....	ug/kg		ND	58	5
78-93-3	2-Butanone.....	ug/kg		ND	580	5
104-51-8	n-Butylbenzene.....	ug/kg		ND	29	5
135-98-8	sec-Butylbenzene.....	ug/kg		ND	29	5
98-06-6	tert-Butylbenzene.....	ug/kg		ND	29	5
75-15-0	Carbon disulfide.....	ug/kg		ND	29	5
56-23-5	Carbon tetrachloride.....	ug/kg		ND	29	5
108-90-7	Chlorobenzene.....	ug/kg		ND	29	5
124-48-1	Chlorodibromomethane.....	ug/kg		ND	29	5
75-00-3	Chloroethane.....	ug/kg		ND	58	5
110-75-8	2-Chloroethyl vinyl ether.....	ug/kg		ND	58	5
67-66-3	Chloroform.....	ug/kg		ND	29	5
74-87-3	Chloromethane.....	ug/kg		ND	58	5
95-49-8	2-Chlorotoluene.....	ug/kg		ND	29	5
106-43-4	4-Chlorotoluene.....	ug/kg		ND	29	5
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	29	5
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	29	5
74-95-3	Dibromomethane.....	ug/kg		ND	29	5

Login #L9803172
March 24, 1998 02:55 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9803172-04
Client Sample ID: VMP-1 (1-3')
Site/Work ID: SDG-208B/DAYTON THERM. BLD.40B
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/06/98

Sample Weight: N/A
Extract Volume: N/A
% Solid: 86

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/18/98 Time: 14:46

Instrument: HPMS8
Analyst: MDA
Lab File ID: 8CC00638

Method: 8260A
Run ID: R43305

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	29	5
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	29	5
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	29	5
75-71-8	Dichlorodifluoromethane	ug/kg		ND	58	5
75-34-3	1,1-Dichloroethane	ug/kg	5.3	J	29	5
107-06-2	1,2-Dichloroethane	ug/kg		ND	29	5
75-35-4	1,1-Dichloroethene	ug/kg		ND	29	5
156-59-2	cis-1,2-Dichloroethene	ug/kg	77		29	5
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	29	5
78-87-5	1,2-Dichloropropane	ug/kg		ND	29	5
142-28-9	1,3-Dichloropropane	ug/kg		ND	29	5
594-20-7	2,2-Dichloropropane	ug/kg		ND	29	5
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	29	5
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	29	5
563-58-6	1,1-Dichloropropene	ug/kg		ND	29	5
100-41-4	Ethylbenzene	ug/kg		ND	29	5
591-78-6	2-Hexanone	ug/kg		ND	58	5
87-68-3	Hexachlorobutadiene	ug/kg		ND	29	5
98-82-8	Isopropylbenzene	ug/kg		ND	29	5
99-87-6	p-Isopropyltoluene	ug/kg		ND	29	5
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	58	5
75-09-2	Methylene chloride	ug/kg	5.7	J	29	5
91-20-3	Naphthalene	ug/kg		ND	58	5
103-65-1	n-Propylbenzene	ug/kg		ND	29	5
100-42-5	Styrene	ug/kg		ND	29	5
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	29	5
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	29	5
127-18-4	Tetrachloroethene	ug/kg	20	J	29	5
108-88-3	Toluene	ug/kg		ND	29	5
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	29	5
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	29	5
71-55-6	1,1,1-Trichloroethane	ug/kg	19	J	29	5
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	29	5
79-01-6	Trichloroethene	ug/kg	70		29	5
75-69-4	Trichlorofluoromethane	ug/kg		ND	58	5
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	29	5
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	29	5
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	29	5
108-05-4	Vinyl acetate	ug/kg		ND	58	5

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9803172-04
Client Sample ID: VMP-1 (1-3')
Site/Work ID: SDG-208B/DAYTON THERM. BLD.40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/18/98 Time: 14:46

Dil. Type: N/A
COC Info: N/A

Date Collected: 03/06/98

Instrument: HPMS8
Analyst: MDA
Lab File ID: 8CC00638

Sample Weight: N/A
Extract Volume: N/A

% Solid: 86

Method: 8260A
Run ID: R43305

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-01-4	Vinyl chloride	ug/kg		ND	58	5
95-47-6	o-Xylene	ug/kg		ND	29	5
108-38-3	m-Xylene	ug/kg		ND	29	5
106-42-3	p-Xylene	ug/kg		ND	29	5

SURROGATES- In Percent Recovery:

Dibromofluoromethane	105	(80 - 120%)
1,2-Dichloroethane-d4	102	(80 - 120%)
Toluene-d8	100	(81 - 117%)
4-Bromofluorobenzene	93.7	(74 - 121%)

Lab Sample ID: L9803172-05
Client Sample ID: VMP-5 (5-7')
Site/Work ID: SDG-208B/DAYTON THERM. BLD.40B

Matrix: Soil
Collected: 03/06/98 1500

% Solid: 76
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids	% wt.	76		1.0	1	N/A	DLN	03/23/98	10:00	D2216-90

Login #L9803172
March 24, 1998 02:55 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9803172-05
Client Sample ID: VMP-5 (5-7')
Site/Work ID: SDG-208B/DAYTON THERM. BLD.40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/20/98 Time: 16:33

Dil. Type: N/A
COC Info: N/A

Date Collected: 03/06/98

Instrument: HPMS8
Analyst: JLH
Lab File ID: 8CC00683

Sample Weight: N/A
Extract Volume: N/A

% Solid: 76

Method: 8260A
Run ID: R43308

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone	ug/kg	6.7	J	130	1
71-43-2	Benzene	ug/kg		ND	6.6	1
108-86-1	Bromobenzene	ug/kg		ND	6.6	1
74-97-5	Bromochloromethane	ug/kg		ND	6.6	1
75-27-4	Bromodichloromethane	ug/kg		ND	6.6	1
75-25-2	Bromoform	ug/kg		ND	6.6	1
74-83-9	Bromomethane	ug/kg		ND	13	1
78-93-3	2-Butanone	ug/kg		ND	130	1
104-51-8	n-Butylbenzene	ug/kg		ND	6.6	1
135-98-8	sec-Butylbenzene	ug/kg		ND	6.6	1
98-06-6	tert-Butylbenzene	ug/kg		ND	6.6	1
75-15-0	Carbon disulfide	ug/kg		ND	6.6	1
56-23-5	Carbon tetrachloride	ug/kg		ND	6.6	1
108-90-7	Chlorobenzene	ug/kg		ND	6.6	1
124-48-1	Chlorodibromomethane	ug/kg		ND	6.6	1
75-00-3	Chloroethane	ug/kg		ND	13	1
110-75-8	2-Chloroethyl vinyl ether	ug/kg		ND	13	1
67-66-3	Chloroform	ug/kg		ND	6.6	1
74-87-3	Chloromethane	ug/kg		ND	13	1
95-49-8	2-Chlorotoluene	ug/kg		ND	6.6	1
106-43-4	4-Chlorotoluene	ug/kg		ND	6.6	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	6.6	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	6.6	1
74-95-3	Dibromomethane	ug/kg		ND	6.6	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	6.6	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	6.6	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	6.6	1
75-71-8	Dichlorodifluoromethane	ug/kg		ND	13	1
75-34-3	1,1-Dichloroethane	ug/kg	4.1	J	6.6	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	6.6	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	6.6	1
156-59-2	cis-1,2-Dichloroethene	ug/kg	12	D	6.6	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	6.6	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	6.6	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	6.6	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	6.6	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	6.6	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	6.6	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	6.6	1

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9803172-05
Client Sample ID: VMP-5 (5-7')
Site/Work ID: SDG-208B/DAYTON THERM. BLD.40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/20/98 Time: 16:33

Dil. Type: N/A
COC Info: N/A

Date Collected: 03/06/98

Instrument: HPMS8
Analyst: JLH
Lab File ID: 8CC00683

Sample Weight: N/A
Extract Volume: N/A

% Solid: 76

Method: 8260A
Run ID: R43308

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethylbenzene	ug/kg		ND	6.6	1
591-78-6	2-Hexanone	ug/kg		ND	13	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	6.6	1
98-82-8	Isopropylbenzene	ug/kg		ND	6.6	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	6.6	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	13	1
75-09-2	Methylene chloride	ug/kg	1.2	J	6.6	1
91-20-3	Naphthalene	ug/kg		ND	13	1
103-65-1	n-Propylbenzene	ug/kg		ND	6.6	1
100-42-5	Styrene	ug/kg		ND	6.6	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	6.6	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	6.6	1
127-18-4	Tetrachloroethene	ug/kg	22	D	6.6	1
108-88-3	Toluene	ug/kg		ND	6.6	1
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	6.6	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	6.6	1
71-55-6	1,1,1-Trichloroethane	ug/kg	2.5	J	6.6	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	6.6	1
79-01-6	Trichloroethene	ug/kg	29	D	6.6	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	13	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	6.6	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	6.6	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	6.6	1
108-05-4	Vinyl acetate	ug/kg		ND	13	1
75-01-4	Vinyl chloride	ug/kg		ND	13	1
95-47-6	o-Xylene	ug/kg		ND	6.6	1
108-38-3	m-Xylene	ug/kg		ND	6.6	1
106-42-3	p-Xylene	ug/kg		ND	6.6	1

SURROGATES- In Percent Recovery:

Dibromofluoromethane	103	(80 - 120%)
1,2-Dichloroethane-d4	98.1	(80 - 120%)
Toluene-d8	96.5	(81 - 117%)
4-Bromofluorobenzene	90.7	(74 - 121%)

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9803172-06
Client Sample ID: AMP-5 (1-3')
Site/Work ID: SDG-208B/DAYTON THERM. BLD.40B

Matrix: Soil
Collected: 03/09/98 1520

% Solid: 90
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	90		1.0	1	N/A	DLN	03/23/98	10:00	D2216-90

Product: 8260 - Volatile Organics

Lab Sample ID: L9803172-06
Client Sample ID: AMP-5 (1-3')
Site/Work ID: SDG-208B/DAYTON THERM. BLD.40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/18/98 Time: 17:54

Dil. Type: N/A
COC Info: N/A
Date Collected: 03/09/98

Instrument: HPMS8
Analyst: MDA
Lab File ID: 8CC0C642

Sample Weight: N/A
Extract Volume: N/A
% Solid: 90

Method: 8260A
Run ID: R43305

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
67-64-1	Acetone.....	ug/kg	33	J	560	5
71-43-2	Benzene.....	ug/kg		ND	28	5
108-86-1	Bromobenzene.....	ug/kg		ND	28	5
74-97-5	Bromochloromethane.....	ug/kg		ND	28	5
75-27-4	Bromodichloromethane.....	ug/kg		ND	28	5
75-25-2	Bromoform.....	ug/kg		ND	28	5
74-83-9	Bromomethane.....	ug/kg		ND	56	5
78-93-3	2-Butanone.....	ug/kg		ND	560	5
104-51-8	n-Butylbenzene.....	ug/kg		ND	28	5
135-98-8	sec-Butylbenzene.....	ug/kg		ND	28	5
98-06-6	tert-Butylbenzene.....	ug/kg		ND	28	5
75-15-0	Carbon disulfide.....	ug/kg		ND	28	5
56-23-5	Carbon tetrachloride.....	ug/kg		ND	28	5
108-90-7	Chlorobenzene.....	ug/kg		ND	28	5
124-48-1	Chlorodibromomethane.....	ug/kg		ND	28	5
75-00-3	Chloroethane.....	ug/kg		ND	56	5
110-75-8	2-Chloroethyl vinyl ether.....	ug/kg		ND	56	5
67-66-3	Chloroform.....	ug/kg		ND	28	5
74-87-3	Chloromethane.....	ug/kg		ND	56	5
95-49-8	2-Chlorotoluene.....	ug/kg		ND	28	5
106-43-4	4-Chlorotoluene.....	ug/kg		ND	28	5
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	28	5
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	28	5
74-95-3	Dibromomethane.....	ug/kg		ND	28	5

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9803172-06
Client Sample ID: AMP-5 (1-3')
Site/Work ID: SDG-208B/DAYTON THERM. BLD.40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/18/98 Time: 17:54

Dil. Type: N/A
COC Info: N/A

Date Collected: 03/09/98

Instrument: HPMS8
Analyst: MDA
Lab File ID: 8CC00642

Sample Weight: N/A
Extract Volume: N/A

% Solid: 90

Method: 8260A
Run ID: R43305

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	28	5
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	28	5
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	28	5
75-71-8	Dichlorodifluoromethane	ug/kg		ND	56	5
75-34-3	1,1-Dichloroethane	ug/kg	11	J	28	5
107-06-2	1,2-Dichloroethane	ug/kg		ND	28	5
75-35-4	1,1-Dichloroethene	ug/kg		ND	28	5
156-59-2	cis-1,2-Dichloroethene	ug/kg	370		28	5
156-60-5	trans-1,2-Dichloroethene	ug/kg	6.6	J	28	5
78-87-5	1,2-Dichloropropane	ug/kg		ND	28	5
142-28-9	1,3-Dichloropropane	ug/kg		ND	28	5
594-20-7	2,2-Dichloropropane	ug/kg		ND	28	5
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	28	5
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	28	5
563-58-6	1,1-Dichloropropene	ug/kg		ND	28	5
100-41-4	Ethylbenzene	ug/kg		ND	28	5
591-78-6	2-Hexanone	ug/kg		ND	56	5
87-68-3	Hexachlorobutadiene	ug/kg		ND	28	5
98-82-8	Isopropylbenzene	ug/kg		ND	28	5
99-87-6	p-Isopropyltoluene	ug/kg		ND	28	5
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	56	5
75-09-2	Methylene chloride	ug/kg		ND	28	5
91-20-3	Naphthalene	ug/kg		ND	56	5
103-65-1	n-Propylbenzene	ug/kg		ND	28	5
100-42-5	Styrene	ug/kg		ND	28	5
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	28	5
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	28	5
127-18-4	Tetrachloroethene	ug/kg	180		28	5
108-88-3	Toluene	ug/kg		ND	28	5
87-61-6	1,2,3-Trichlorobenzene	ug/kg		ND	28	5
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	28	5
71-55-6	1,1,1-Trichloroethane	ug/kg	50		28	5
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	28	5
79-01-6	Trichloroethene	ug/kg	5300	D	28	5
75-69-4	Trichlorofluoromethane	ug/kg		ND	56	5
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	28	5
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	28	5
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	28	5
108-05-4	Vinyl acetate	ug/kg		ND	56	5

KEMRON ENVIRONMENTAL SERVICES

Product: 8260 - Volatile Organics

Lab Sample ID: L9803172-06
Client Sample ID: AMP-5 (1-3')
Site/Work ID: SDG-208B/DAYTON THERM. BLD.40B
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 03/18/98 Time: 17:54

Dil. Type: N/A
COC Info: N/A

Date Collected: 03/09/98

Instrument: HPMS8
Analyst: MDA
Lab File ID: 8CC00642

Sample Weight: N/A
Extract Volume: N/A

% Solid: 90

Method: 8260A
Run ID: R43305

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-01-4	Vinyl chloride	ug/kg		ND	56	5
95-47-6	o-Xylene	ug/kg		ND	28	5
108-38-3	m-Xylene	ug/kg		ND	28	5
106-42-3	p-Xylene	ug/kg		ND	28	5

SURROGATES- In Percent Recovery:

Dibromofluoromethane	104	(80 - 120%)
1,2-Dichloroethane-d4	93.9	(80 - 120%)
Toluene-d8	100	(81 - 117%)
4-Bromofluorobenzene	99.9	(74 - 121%)

Order #: 98-03-172
March 24, 1998 02:55 pm

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Analyst	Date Collected	Run Date	Run Time	Department
WG37912	R43305	L9803172-04		Soil	Volatile Organics	8260A	MDA	06-MAR-1998	18-MAR-1998	14:46	Volatile - GC/MS
WG37912	R43305	L9803172-06		Soil	Volatile Organics	8260A	MDA	09-MAR-1998	18-MAR-1998	17:54	Volatile - GC/MS
WG37975	R43196	L9803172-02		Water	Volatile Organics	8260A	SLT	09-MAR-1998	19-MAR-1998	17:38	Volatile - GC/MS
WG37975	R43196	L9803172-03		Water	Volatile Organics	8260A	SLT	09-MAR-1998	19-MAR-1998	18:13	Volatile - GC/MS
WG38045	R43179	L9803172-01		Water	Volatile Organics	8260A	SLT	06-MAR-1998	20-MAR-1998	10:29	Volatile - GC/MS
WG38075	R43308	L9803172-05		Soil	Volatile Organics	8260A	JLH	06-MAR-1998	20-MAR-1998	16:33	Volatile - GC/MS
WG38143	R43321	L9803172-04		Soil	Percent Solids	D2216-90	DLN	06-MAR-1998	23-MAR-1998	10:00	Conventionals
WG38143	R43321	L9803172-05		Soil	Percent Solids	D2216-90	DLN	06-MAR-1998	23-MAR-1998	10:00	Conventionals
WG38143	R43321	L9803172-06		Soil	Percent Solids	D2216-90	DLN	09-MAR-1998	23-MAR-1998	10:00	Conventionals

KEMRON ANALYST LIST

Ohio Valley Laboratory

01/06/98

ALC - - Ann L. Clark
BWH - - Ben W. Haynes
CEB - - Chad E. Barnes
CLH - - Chris L. Hurst
CMS - - Crystal M. Stevens
CRC - - Carla R. Cochran
DIH - - Deanna I. Hesson
DLN - - Deanna L. Norton
DLP - - Dorothy L. Payne
DST - - Dennis S. Tepe
ECL - - Eric C. Lawson
EDG - - Eric D. Gerkin
FEH - - Fay E. Harmon
HV - - Hema Vilasagar
JKM - - June K. Morris
JLI - - Janice L. Holland
JMM - - Jim M. Monk
JWR - - John W. Richards
JYH - - Ji Y. Hu
KHA - - Kim H. Archer
KMM - - Kevin M. McDonald
KRA - - Kathy R. Albertson
MAR - - MaryAnn Roach
MDA - - Mike D. Albertson
MDC - - Michael D. Cochran
MES - - Mary E. Schiling
MLS - - Michael L. Schimmel
MMB - - Maren M. Beery
MZL - - Melanie Z. Lewis
RDC - - Rebecca D. Cutlip
RDS - - Rebecca D. Sutton
REF - - Ron E. Fertile
REK - - Robert E. Kyer
RSS - - Regina S. Simmons
RWC - - Rodney W. Campbell
SJM - - Shawn J. Marshall
SLP - - Sheri L. Pfalzgraf
SLT - - Stephanie L. Tepe
SPL - - Steve P. Learn
TLD - - Teresa L. Davis
VC - - Vicki Collier
WCD - - Wade C. Dawson

KEMRON Environmental Services, Inc.
LIST OF VALID QUALIFIERS (qual)
March 9, 1998

Qualifier	Description
(A)	See the report narrative
(B)	See the report narrative
(C)	See the report narrative
+	Correlation coefficient for the MSA is less than 0.995
<	Less than
>	Greater than
B	Present in the method blank
C	Confirmed by GC/MS
*	Surrogate or spike compound out of range
CG	Confluent growth
D	The analyte was quantified at a secondary dilution factor
DL	Surrogate or spike was diluted out
E	Estimated concentration due to sample matrix interference
F	Present below nominal reporting limit (AFCEE only)
FL	Free liquid
I	Semiquantitative result, out of instrument calibration range
J	Present below nominal reporting limit
L	Sample reporting limits elevated due to matrix interference
M	Duplicate injection precision not met

Qualifier	Description
N	Tentatively Identified Compound (TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL)
NF	Not found
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentration > 25% difference between the two GC columns
QNS	Quantity not sufficient to perform analysis
R	Analyte exceeds regulatory limit
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TNTC	Too numerous to count
U	Analyzed for but not detected
W	Post-digestion spike for furnace AA out of control limits
X	Can not be resolved from isomer. See below.

Special Notes for Organic Analytes

1. Acrolein and acrylonitrile by method 624 are semiquantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.

ORGANIC QA/QC

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ORGANIC QA/QC

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KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG37912	Run Date:	3/18/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260B	Instrument ID:	HPMS_8	SMPL Num:	03-172-04	SMPL DF:	5
Matrix:	Soil	BLK FLNM:	8BK00652	SMPL FLNM:	8CC00638	MS DF:	5
Units:	ug/kg	BLK2 FLNM:	8BK00635	MS FLNM:	8CC00639.D	MSD DF:	5
		LCS FLNM:	8LC00636.D	MSD FLNM:	8CC00640.D		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
dichlorodifluoromethane	1.0	ND	ND	12.5	NA	20.0	ND	35.1	34.4	50.0	62.4	NA	46.0	152.0	70.2	68.9	46.0	152.0	2.0	20.0
chloromethane	1.0	ND	ND	15.8	NA	20.0	ND	43.9	45.0	50.0	79.2	NA	64.0	140.0	87.9	90.0	64.0	140.0	2.4	20.0
vinyl chloride	1.0	ND	ND	20.7	NA	20.0	ND	51.2	52.7	50.0	103.6	NA	70.0	137.0	102.4	105.5	70.0	137.0	3.0	20.0
bromomethane	1.0	ND	ND	20.3	NA	20.0	ND	56.0	56.6	50.0	101.6	NA	62.0	147.0	111.9	113.3	62.0	147.0	1.2	20.0
chloroethane	1.0	ND	ND	21.5	NA	20.0	ND	56.0	57.1	50.0	107.3	NA	69.0	136.0	112.1	114.2	69.0	136.0	1.9	20.0
trichlorofluoromethane	1.0	ND	ND	20.2	NA	20.0	ND	58.5	56.9	50.0	100.8	NA	70.0	134.0	116.9	113.8	70.0	134.0	2.7	20.0
freon 113	NTC	ND	ND	NA	NA	20.0	ND	NA	NA	50.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.0
acetone	NTC	ND	ND	17.5	NA	20.0	ND	47.8	49.3	50.0	87.7	NA	14.0	171.0	95.5	98.6	14.0	171.0	3.2	20.0
1,1-dichloroethene	1.0	ND	ND	23.7	NA	20.0	ND	68.3	67.3	50.0	118.7	NA	70.0	140.0	136.6	134.5	70.0	140.0	1.5	20.0
iodomethane	NTC	ND	ND	19.3	NA	20.0	ND	66.0	67.7	50.0	96.5	NA	50.0	150.0	132.0	135.5	50.0	150.0	2.6	20.0
methylene chloride	1.0	ND	ND	21.8	NA	20.0	ND	60.4	60.6	50.0	109.0	NA	57.0	146.0	120.9	121.1	57.0	146.0	0.2	20.0
carbon disulfide	NTC	ND	ND	19.4	NA	20.0	ND	60.2	61.1	50.0	96.9	NA	69.0	125.0	120.3	122.3	69.0	125.0	1.6	20.0
acrylonitrile	NTC	ND	ND	NA	NA	20.0	ND	NA	NA	50.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.0
trans-1,2-dichloroethene	1.0	ND	ND	25.3	NA	20.0	ND	73.0	71.2	50.0	126.3	NA	75.0	141.0	146.0	142.3	75.0	141.0	2.6	20.0
vinyl acetate	NTC	ND	ND	11.1	NA	20.0	ND	30.2	25.3	50.0	55.3	NA	D	132.0	60.5	50.5	D	132.0	17.9	20.0
1,1-dichloroethane	1.0	ND	ND	23.0	NA	20.0	ND	66.3	65.7	50.0	115.1	NA	79.0	125.0	132.6	131.4	79.0	125.0	0.9	20.0
2-butanone	NTC	ND	ND	17.8	NA	20.0	ND	52.6	53.4	50.0	89.2	NA	28.0	173.0	105.2	106.8	28.0	173.0	1.5	20.0
2,2-dichloropropane	1.0	ND	ND	23.3	NA	20.0	ND	69.1	66.7	50.0	116.7	NA	69.0	128.0	138.2	133.3	69.0	128.0	3.6	20.0
cis-1,2-dichloroethene	1.0	ND	ND	22.0	NA	20.0	ND	70.1	67.5	50.0	109.8	NA	75.0	125.0	140.1	135.1	75.0	125.0	3.7	20.0
chloroform	1.0	ND	ND	22.9	NA	20.0	ND	66.9	66.0	50.0	114.3	NA	78.0	124.0	133.8	132.0	78.0	124.0	1.4	20.0

Notes and Definitions:

RDL = Reporting Detection Limit
BLK = Method Blank
BLK2 = Second Method Blank
LCS = Laboratory Control Sample
LCS2 = Second Laboratory Control Sample
SMPL = Sample Results
MS/MSD = Matrix Spike / Matrix Spike Duplicate
LCL = Lower Control Limit
UCL = Upper Control Limit
RPD = Relative Percent Difference

ND = Not Detected
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KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG37912	Run Date:	3/18/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260B	Instrument ID:	HPMS_8	SMPL Num:	03-172-04	SMPL DF:	5
Matrix:	Soil	BLK FLNM:	8BK00652	SMPL FLNM:	8CC00638	MS DF:	5
Units:	ug/kg	BLK2 FLNM:	8BK00635	MS FLNM:	8CC00639.D	MSD DF:	5
		LCS FLNM:	8LC00636.D	MSD FLNM:	8CC00640.D		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
bromochloromethane	1.0	ND	ND	22.7	NA	20.0	ND	65.8	66.0	50.0	113.7	NA	78.0	125.0	131.6	132.0	78.0	125.0	0.3	20.0
1,1,1-trichloroethane	1.0	ND	ND	23.4	NA	20.0	ND	71.1	69.2	50.0	117.2	NA	77.0	124.0	142.2	138.5	77.0	124.0	2.7	20.0
1,1-dichloropropene	1.0	ND	ND	24.9	NA	20.0	ND	71.4	69.6	50.0	124.7	NA	85.0	132.0	142.7	139.1	85.0	132.0	2.6	20.0
carbon tetrachloride	1.0	ND	ND	23.8	NA	20.0	ND	71.8	69.8	50.0	119.0	NA	77.0	126.0	143.6	139.5	77.0	126.0	2.9	20.0
1,2-dichloroethane	1.0	ND	ND	22.9	NA	20.0	ND	65.2	65.3	50.0	114.3	NA	75.0	126.0	130.5	130.5	75.0	126.0	0.0	20.0
benzene	1.0	ND	ND	22.3	NA	20.0	ND	63.6	62.9	50.0	111.5	NA	81.0	122.0	127.2	125.8	81.0	122.0	1.1	20.0
trichloroethene	1.0	ND	ND	22.7	NA	20.0	ND	127.2	122.8	50.0	113.7	NA	81.0	123.0	254.3	245.6	81.0	123.0	3.5	20.0
1,2-dichloropropane	1.0	ND	ND	22.3	NA	20.0	ND	64.3	63.8	50.0	111.5	NA	79.0	125.0	128.6	127.6	79.0	125.0	0.8	20.0
bromodichloromethane	1.0	ND	ND	23.5	NA	20.0	ND	71.1	69.7	50.0	117.5	NA	81.0	123.0	142.2	139.3	81.0	123.0	2.0	20.0
dibromomethane	1.0	ND	ND	23.3	NA	20.0	ND	65.7	66.0	50.0	116.3	NA	80.0	126.0	131.4	132.1	80.0	126.0	0.5	20.0
2-chloroethylvinyl-ether	NTC	ND	ND	27.6	NA	20.0	ND	90.5	94.4	50.0	137.9	NA	50.0	151.0	181.0	188.9	50.0	151.0	4.2	20.0
4-methyl-2-pentanone	NTC	ND	ND	19.7	NA	20.0	ND	61.5	61.1	50.0	98.7	NA	38.0	162.0	122.9	122.2	38.0	162.0	0.6	20.0
cis-1,3-dichloropropene	1.0	ND	ND	23.4	NA	20.0	ND	67.8	66.8	50.0	116.9	NA	81.0	124.0	135.7	133.6	81.0	124.0	1.5	20.0
toluene	1.0	ND	ND	21.7	NA	20.0	ND	59.9	58.8	50.0	108.3	NA	80.0	124.0	119.7	117.5	80.0	124.0	1.9	20.0
trans-1,3-dichloropropene	1.0	ND	ND	22.8	NA	20.0	ND	64.8	64.0	50.0	114.1	NA	80.0	122.0	129.7	128.0	80.0	122.0	1.3	20.0
1,1,2-trichloroethane	1.0	ND	ND	22.2	NA	20.0	ND	61.9	60.9	50.0	111.1	NA	79.0	123.0	123.8	121.8	79.0	123.0	1.6	20.0
2-hexanone	NTC	ND	ND	18.1	NA	20.0	ND	53.8	55.5	50.0	90.7	NA	31.0	149.0	107.6	111.0	31.0	149.0	3.1	20.0
1,3-dichloropropane	1.0	ND	ND	22.1	NA	20.0	ND	60.9	60.1	50.0	110.3	NA	79.0	123.0	121.8	120.2	79.0	123.0	1.3	20.0
tetrachloroethene	1.0	ND	ND	22.6	NA	20.0	ND	67.0	64.6	50.0	112.9	NA	80.0	122.0	133.9	129.2	80.0	122.0	3.6	20.0
dibromochloromethane	1.0	ND	ND	22.5	NA	20.0	ND	68.7	66.6	50.0	112.7	NA	81.0	122.0	137.5	133.3	81.0	122.0	3.1	20.0

Notes and Definitions:

RDL = Reporting Detection Limit
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KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG37912	Run Date:	3/18/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260B	Instrument ID:	HPMS_8	SMPL Num:	03-172-04	SMPL DF:	5
Matrix:	Soil	BLK FLNM:	8BK00652	SMPL FLNM:	8CC00638	MS DF:	5
Units:	ug/kg	BLK2 FLNM:	8BK00635	MS FLNM:	8CC00639.D	MSD DF:	5
		LCS FLNM:	8LC00636.D	MSD FLNM:	8CC00640.D		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
1,2-dibromoethane	1.0	ND	ND	22.8	NA	20.0	ND	63.3	62.0	50.0	113.8	NA	79.0	125.0	126.5	124.0	79.0	125.0	2.0	20.0
chlorobenzene	1.0	ND	ND	22.2	NA	20.0	ND	59.7	58.0	50.0	110.8	NA	82.0	124.0	119.4	116.0	82.0	124.0	2.9	20.0
1,1,1,2-tetrachloroethane	1.0	ND	ND	22.8	NA	20.0	ND	64.9	63.5	50.0	113.9	NA	80.0	124.0	129.9	127.0	80.0	124.0	2.3	20.0
ethylbenzene	1.0	ND	ND	22.0	NA	20.0	ND	60.3	58.5	50.0	110.0	NA	78.0	127.0	120.5	117.0	78.0	127.0	3.0	20.0
m + p-xylene	1.0	ND	ND	43.3	NA	40.0	ND	118.8	117.7	100.0	108.4	NA	81.0	124.0	118.8	117.7	81.0	124.0	0.9	20.0
o-xylene	1.0	ND	ND	21.7	NA	20.0	ND	59.9	59.6	50.0	108.3	NA	83.0	124.0	119.9	119.3	83.0	124.0	0.5	20.0
styrene	1.0	ND	ND	22.8	NA	20.0	ND	62.1	61.1	50.0	113.9	NA	80.0	122.0	124.2	122.2	80.0	122.0	1.6	20.0
bromoform	1.0	ND	ND	22.0	NA	20.0	ND	67.0	65.6	50.0	110.0	NA	67.0	134.0	133.9	131.2	67.0	134.0	2.1	20.0
isopropylbenzene	1.0	ND	ND	22.4	NA	20.0	ND	61.3	60.1	50.0	112.0	NA	82.0	124.0	122.5	120.3	82.0	124.0	1.9	20.0
1,1,2,2-tetrachloroethane	1.0	ND	ND	23.6	NA	20.0	ND	59.8	60.6	50.0	117.8	NA	71.0	136.0	119.6	121.2	71.0	136.0	1.3	20.0
1,2,3-trichloropropane	1.0	ND	ND	22.8	NA	20.0	ND	61.4	58.8	50.0	114.2	NA	70.0	139.0	122.8	117.7	70.0	139.0	4.3	20.0
trans-1,4-dichloro-2-butene	NTC	ND	ND	NA	NA	20.0	ND	NA	NA	50.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
propyl-benzene	1.0	ND	ND	21.9	NA	20.0	ND	59.7	55.4	50.0	109.5	NA	79.0	124.0	119.3	110.7	79.0	124.0	7.5	20.0
bromobenzene	1.0	ND	ND	21.1	NA	20.0	ND	58.4	54.3	50.0	105.5	NA	80.0	122.0	116.7	108.5	80.0	122.0	7.3	20.0
1,3,5-trimethylbenzene	1.0	ND	ND	22.1	NA	20.0	ND	60.7	56.9	50.0	110.3	NA	82.0	123.0	121.4	113.7	82.0	123.0	6.5	20.0
2-chlorotoluene	1.0	ND	ND	21.3	NA	20.0	ND	56.6	53.6	50.0	106.3	NA	77.0	126.0	113.2	107.1	77.0	126.0	5.5	20.0
4-chlorotoluene	1.0	ND	ND	21.9	NA	20.0	ND	59.5	54.7	50.0	109.5	NA	80.0	124.0	119.0	109.3	80.0	124.0	8.4	20.0
tert-butyl-benzene	1.0	ND	ND	21.5	NA	20.0	ND	60.0	55.4	50.0	107.6	NA	78.0	122.0	120.1	110.8	78.0	122.0	8.0	20.0
1,2,4-trimethylbenzene	1.0	ND	ND	22.5	NA	20.0	ND	61.1	57.4	50.0	112.7	NA	83.0	123.0	122.1	114.8	83.0	123.0	6.2	20.0
sec-butyl-benzene	1.0	ND	ND	22.2	NA	20.0	ND	60.0	55.5	50.0	111.2	NA	80.0	124.0	120.0	110.9	80.0	124.0	7.8	20.0

Notes and Definitions:

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KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG37912	Run Date:	3/18/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260B	Instrument ID:	HPMS_8	SMPL Num:	03-172-04	SMPL DF:	5
Matrix:	Soil	BLK FLNM:	8BK00652	SMPL FLNM:	8CC00638	MS DF:	5
Units:	ug/kg	BLK2 FLNM:	8BK00635	MS FLNM:	8CC00639.D	MSD DF:	5
		LCS FLNM:	8LC00636.D	MSD FLNM:	8CC00640.D		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
p-isopropyl-toluene	1.0	ND	ND	22.3	NA	20.0	ND	60.3	56.1	50.0	111.6	NA	77.0	124.0	120.5	112.1	77.0	124.0	7.3	20.0
1,3-dichlorobenzene	1.0	ND	ND	21.5	NA	20.0	ND	56.5	51.3	50.0	107.6	NA	82.0	120.0	113.0	102.6	82.0	120.0	9.6	20.0
1,4-dichlorobenzene	1.0	ND	ND	21.2	NA	20.0	ND	54.7	50.7	50.0	106.1	NA	81.0	121.0	109.3	101.3	81.0	121.0	7.6	20.0
n-butyl-benzene	1.0	ND	ND	22.9	NA	20.0	ND	61.0	54.9	50.0	114.7	NA	81.0	125.0	121.9	109.9	81.0	125.0	10.4	20.0
1,2-dichlorobenzene	1.0	ND	ND	21.8	NA	20.0	ND	56.5	52.6	50.0	109.0	NA	84.0	122.0	113.0	105.2	84.0	122.0	7.2	20.0
1,2-dibromo-3-chloropropane	10.0	ND	ND	22.8	NA	20.0	ND	63.2	62.4	50.0	113.9	NA	55.0	155.0	126.4	124.7	55.0	155.0	1.3	20.0
1,2,4-trichlorobenzene	1.0	ND	ND	22.5	NA	20.0	ND	54.3	47.0	50.0	112.3	NA	78.0	124.0	108.6	94.1	78.0	124.0	14.3	20.0
hexachlorobutadiene	1.0	ND	ND	21.6	NA	20.0	ND	53.2	44.9	50.0	108.1	NA	73.0	127.0	106.5	89.8	73.0	127.0	17.0	20.0
napthalene	1.0	ND	ND	23.1	NA	20.0	ND	53.7	49.2	50.0	115.7	NA	56.0	152.0	107.3	98.4	56.0	152.0	8.6	20.0
1,2,3-trichlorobenzene	1.0	ND	ND	22.1	NA	20.0	ND	52.9	46.2	50.0	110.4	NA	76.0	128.0	105.9	92.3	76.0	128.0	13.6	20.0

BLK2 = Second Method Blank
LCS = Laboratory Control Sample
LCS2 = Second Laboratory Control Sample
SMPL = Sample Results
MS/MSD = Matrix Spike / Matrix Spike Duplicate
LCL = Lower Control Limit
UCL = Upper Control Limit
RPD = Relative Percent Difference

ND = Not Detected
NA = Not Applicable
RDL = Reporting Detection Limit
BLK = Method Blank

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG37975	Run Date:	3/19/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	03-147-04	SMPL DF:	1
Matrix:	Water	BLK FLNM:	6BK06499	SMPL FLNM:	6BF06505	MS DF:	1
Units:	ug/L	BLK2 FLNM:	NA	MS FLNM:	6BF06506	MSD DF:	1
		LCS FLNM:	6QC06498	MSD FLNM:	6BF06507		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	%	%	%	%	%	%	%	%	%	%
dichlorodifluoromethane	10.0	ND	ND	11.7	NA	20.0	ND	9.5	8.7	20.0	58.5	NA	24.0	181.0	47.5	43.6	60.0	140.0	8.6	20.0
chloromethane	10.0	ND	ND	15.6	NA	20.0	ND	12.9	12.7	20.0	78.0	NA	D	204.0	64.5	63.5	D	273.0	1.6	20.0
vinyl chloride	10.0	ND	ND	18.0	NA	20.0	ND	15.2	14.4	20.0	90.0	NA	4.0	196.0	76.0	72.0	D	251.0	5.4	20.0
bromomethane	10.0	ND	ND	21.2	NA	20.0	ND	19.4	17.9	20.0	106.0	NA	14.0	186.0	97.0	89.5	D	242.0	8.0	20.0
chloroethane	10.0	ND	ND	19.6	NA	20.0	ND	16.7	15.9	20.0	98.0	NA	38.0	162.0	83.5	79.5	14.0	230.0	4.9	20.0
trichlorofluoromethane	10.0	ND	ND	19.0	NA	20.0	ND	15.9	14.8	20.0	95.0	NA	48.0	152.0	79.5	74.0	17.0	181.0	7.2	20.0
freon 113	10.0	ND	ND	NA	NA	20.0	ND	NA	NA	20.0	NA	NA	NA	NA	NA	NA	70.0	130.0	NA	20.0
acetone	10.0	ND	ND	17.7	NA	20.0	ND	17.7	17.4	20.0	88.5	NA	NA	NA	88.5	87.0	70.0	130.0	1.7	20.0
1,1-dichloroethene	5.0	ND	ND	23.3	NA	20.0	ND	16.6	17.0	20.0	116.5	NA	51.0	150.0	83.0	85.0	D	234.0	2.4	20.0
iodomethane	10.0	ND	ND	NA	NA	20.0	ND	NA	NA	20.0	NA	NA	NA	NA	NA	NA	70.0	130.0	NA	20.0
methylene chloride	5.0	ND	ND	20.8	NA	20.0	ND	18.1	18.1	20.0	104.0	NA	61.0	140.0	90.5	90.5	D	221.0	0.0	20.0
carbon disulfide	5.0	ND	ND	21.6	NA	20.0	ND	16.9	15.9	20.0	108.0	NA	NA	NA	84.5	79.5	70.0	130.0	6.1	20.0
acrylonitrile	100.0	ND	ND	NA	NA	20.0	ND	NA	NA	20.0	NA	NA	NA	NA	NA	NA	70.0	130.0	NA	20.0
trans-1,2-dichloroethene	5.0	ND	ND	24.0	NA	20.0	ND	17.9	18.2	20.0	120.0	NA	70.0	131.0	89.5	91.0	54.0	156.0	1.7	20.0
vinyl acetate	10.0	ND	ND	10.9	NA	20.0	ND	8.1	8.1	20.0	54.5	NA	50.0	150.0	40.6	40.6	70.0	130.0	0.0	20.0
1,1-dichloroethane	5.0	ND	ND	22.5	NA	20.0	ND	19.0	18.6	20.0	112.5	NA	73.0	128.0	95.0	93.0	59.0	155.0	2.1	20.0
2-butanone	5.0	ND	ND	19.8	NA	20.0	ND	18.5	18.1	20.0	99.0	NA	NA	NA	92.5	90.5	70.0	130.0	2.2	20.0
2,2-dichloropropane	5.0	ND	ND	24.1	NA	20.0	ND	19.1	18.0	20.0	120.5	NA	72.0	123.0	95.5	90.0	60.0	140.0	5.9	20.0
cis-1,2-dichloroethene	5.0	ND	ND	22.5	NA	20.0	ND	19.2	18.6	20.0	112.5	NA	82.0	118.0	96.0	93.0	60.0	140.0	3.2	20.0
chloroform	5.0	ND	ND	21.9	NA	20.0	ND	19.3	18.9	20.0	109.5	NA	68.0	133.0	96.5	94.5	51.0	138.0	2.1	20.0

Notes and Definitions:

RDL= Reporting Detection Limit
BLK= Method Blank
BLK2= Second Method Blank
LCS= Laboratory Control Sample
LCS2= Second Laboratory Control Sample
SMPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
RPD= Relative Percent Difference

ND= Not Detected
NA= Not Applicable

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG37975	Run Date:	3/19/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	03-147-04	SMPL DF:	1
Matrix:	Water	BLK FLNM:	6BK06499	SMPL FLNM:	6BF06505	MS DF:	1
Units:	ug/L	BLK2 FLNM:	NA	MS FLNM:	6BF06506	MSD DF:	1
		LCS FLNM:	6QC06498	MSD FLNM:	6BF06507		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
	RDL	BLK	BLK2	LCS	LCS2	LCS Spike Level	SMPL	MS	MSD	MS Spike Level	LCS	LCS2	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	MS RPD	RPD UCL
Target Analytes	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	%	%	%	%	%	%	%	%	%	%
bromochloromethane	5.0	ND	ND	22.1	NA	20.0	ND	20.9	19.9	20.0	110.5	NA	80.0	120.0	104.5	99.5	60.0	140.0	4.9	20.0
1,1,1-trichloroethane	5.0	ND	ND	22.8	NA	20.0	ND	18.9	18.0	20.0	114.0	NA	75.0	125.0	94.5	90.0	52.0	162.0	4.9	20.0
1,1-dichloropropene	5.0	ND	ND	25.6	NA	20.0	ND	19.9	19.3	20.0	128.0	NA	80.0	120.0	99.5	96.5	60.0	140.0	3.1	20.0
carbon tetrachloride	5.0	ND	ND	23.2	NA	20.0	ND	20.2	18.7	20.0	116.0	NA	73.0	127.0	101.0	93.5	70.0	140.0	7.7	20.0
1,2-dichloroethane	5.0	ND	ND	22.5	NA	20.0	ND	22.7	21.2	20.0	112.5	NA	68.0	132.0	113.5	106.0	49.0	155.0	6.8	20.0
benzene	5.0	ND	ND	22.5	NA	20.0	ND	19.3	18.7	20.0	112.5	NA	64.0	136.0	98.5	93.5	37.0	151.0	3.2	20.0
trichloroethene	5.0	ND	ND	23.1	NA	20.0	ND	19.0	18.4	20.0	115.5	NA	67.0	134.0	95.0	92.0	71.0	157.0	3.2	20.0
1,2-dichloropropane	5.0	ND	ND	22.1	NA	20.0	ND	20.1	19.5	20.0	110.5	NA	34.0	166.0	100.5	97.5	D	210.0	3.0	20.0
bromodichloromethane	5.0	ND	ND	22.9	NA	20.0	ND	22.1	21.2	20.0	114.5	NA	66.0	135.0	110.5	106.0	35.0	155.0	4.2	20.0
dibromomethane	5.0	ND	ND	21.8	NA	20.0	ND	22.9	21.5	20.0	109.0	NA	80.0	120.0	114.5	107.5	60.0	140.0	6.3	20.0
2-chloroethylvinyl-ether	5.0	ND	ND	22.8	NA	20.0	ND	ND	16.0	20.0	114.0	NA	NA	NA	NA	80.0	70.0	130.0	ND	20.0
4-methyl-2-pentanone	10.0	ND	ND	20.7	NA	20.0	ND	18.6	22.6	20.0	103.5	NA	NA	NA	93.0	113.0	70.0	130.0	19.4	20.0
cis-1,3-dichloropropene	5.0	ND	ND	25.1	NA	20.0	ND	23.5	22.6	20.0	125.5	NA	24.0	176.0	117.5	113.0	D	227.0	3.9	20.0
toluene	5.0	ND	ND	22.7	NA	20.0	ND	18.9	20.2	20.0	113.5	NA	75.0	126.0	94.5	101.0	47.0	150.0	6.6	20.0
trans-1,3-dichloropropene	5.0	ND	ND	22.7	NA	20.0	ND	22.0	22.9	20.0	113.5	NA	50.0	150.0	110.0	114.5	17.0	183.0	4.0	20.0
1,1,2-trichloroethane	5.0	ND	ND	20.9	NA	20.0	ND	22.4	22.4	20.0	104.5	NA	71.0	129.0	112.0	112.0	52.0	150.0	0.0	20.0
2-hexanone	10.0	ND	ND	18.4	NA	20.0	ND	20.9	20.1	20.0	92.0	NA	NA	NA	104.5	100.5	70.0	130.0	3.9	20.0
1,3-dichloropropane	5.0	ND	ND	21.6	NA	20.0	ND	22.0	22.8	20.0	108.0	NA	70.0	130.0	110.0	114.0	60.0	140.0	3.6	20.0
tetrachloroethene	5.0	ND	ND	22.1	NA	20.0	ND	17.9	18.9	20.0	110.5	NA	74.0	127.0	89.5	94.5	64.0	148.0	5.4	20.0
dibromochloromethane	5.0	ND	ND	21.7	NA	20.0	ND	22.1	22.9	20.0	108.5	NA	68.0	133.0	110.5	114.5	53.0	149.0	3.6	20.0

Notes and Definitions:

RDL= Reporting Detection Limit
BLK= Method Blank
BLK2= Second Method Blank
LCS= Laboratory Control Sample
LCS2= Second Laboratory Control Sample
SMPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
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RPD= Relative Percent Difference

ND= Not Detected
NA= Not Applicable

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG37975	Run Date:	3/19/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	03-147-04	SMPL DF:	1
Matrix:	Water	BLK FLNM:	6BK06499	SMPL FLNM:	6BF06505	MS DF:	1
Units:	ug/L	BLK2 FLNM:	NA	MS FLNM:	6BF06506	MSD DF:	1
		LCS FLNM:	6QC06498	MSD FLNM:	6BF06507		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	%	%	%	%	%	%	%	%	%	%
1,2-dibromoethane	5.0	ND	ND	21.8	NA	20.0	ND	22.7	23.3	20.0	109.0	NA	77.0	123.0	113.5	116.5	60.0	140.0	2.6	20.0
chlorobenzene	5.0	ND	ND	21.5	NA	20.0	ND	19.0	20.1	20.0	107.5	NA	66.0	134.0	95.0	100.5	37.0	160.0	5.6	20.0
1,1,1,2-tetrachloroethane	5.0	ND	ND	21.6	NA	20.0	ND	20.3	21.3	20.0	108.0	NA	75.0	121.0	101.5	106.5	60.0	140.0	4.8	20.0
ethylbenzene	5.0	ND	ND	22.0	NA	20.0	ND	18.4	19.5	20.0	110.0	NA	59.0	141.0	92.0	97.5	37.0	162.0	5.8	20.0
m+p-xylene	5.0	ND	ND	44.5	NA	40.0	ND	37.6	39.9	40.0	111.3	NA	76.0	121.0	94.0	99.8	60.0	140.0	5.9	20.0
o-xylene	5.0	ND	ND	22.7	NA	20.0	ND	19.1	20.4	20.0	113.5	NA	78.0	119.0	95.5	102.0	60.0	140.0	6.6	20.0
styrene	5.0	ND	ND	22.6	NA	20.0	ND	20.4	21.7	20.0	113.0	NA	76.0	119.0	102.0	108.5	60.0	140.0	6.2	20.0
bromoform	5.0	ND	ND	20.8	NA	20.0	ND	23.9	23.5	20.0	104.0	NA	71.0	129.0	119.5	117.5	45.0	169.0	1.7	20.0
isopropylbenzene	5.0	ND	ND	24.0	NA	20.0	ND	19.8	20.9	20.0	120.0	NA	70.0	130.0	99.0	104.5	60.0	140.0	5.4	20.0
1,1,2,2-tetrachloroethane	5.0	ND	ND	20.4	NA	20.0	ND	22.1	22.9	20.0	102.0	NA	61.0	140.0	110.5	114.5	46.0	157.0	3.6	20.0
1,2,3-trichloropropane	5.0	ND	ND	21.4	NA	20.0	ND	23.4	24.0	20.0	107.0	NA	78.0	130.0	117.0	120.0	60.0	140.0	2.5	20.0
trans-1,4-dichloro-2-butene	5.0	ND	ND	NA	NA	20.0	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
propyl-benzene	5.0	ND	ND	23.1	NA	20.0	ND	17.7	19.5	20.0	115.5	NA	70.0	128.0	88.5	97.5	60.0	140.0	9.7	20.0
bromobenzene	5.0	ND	ND	21.3	NA	20.0	ND	18.7	20.6	20.0	106.5	NA	77.0	128.0	93.5	103.0	60.0	140.0	9.7	20.0
1,3,5-trimethylbenzene	5.0	ND	ND	23.3	NA	20.0	ND	18.2	20.4	20.0	116.5	NA	81.0	118.0	91.0	102.0	60.0	140.0	11.4	20.0
2-chlorotoluene	5.0	ND	ND	21.9	NA	20.0	ND	17.7	19.7	20.0	109.5	NA	82.0	126.0	88.5	98.5	60.0	140.0	10.7	20.0
4-chlorotoluene	5.0	ND	ND	22.4	NA	20.0	ND	18.3	20.2	20.0	112.0	NA	74.0	125.0	91.5	101.0	60.0	140.0	9.9	20.0
tert-butyl-benzene	5.0	ND	ND	22.0	NA	20.0	ND	16.6	18.4	20.0	110.0	NA	81.0	122.0	83.0	92.0	60.0	140.0	10.3	20.0
1,2,4-trimethylbenzene	5.0	ND	ND	22.5	NA	20.0	ND	18.3	20.2	20.0	112.5	NA	80.0	118.0	91.5	101.0	60.0	140.0	9.9	20.0
sec-butyl-benzene	5.0	ND	ND	22.8	NA	20.0	ND	17.4	19.1	20.0	114.0	NA	83.0	122.0	87.0	95.5	60.0	140.0	9.3	20.0

Notes and Definitions:

RDL= Reporting Detection Limit
ND= Not Detected
BLK= Method Blank
NA= Not Applicable
BLK2= Second Method Blank
LCS= Laboratory Control Sample
LCS2= Second Laboratory Control Sample
SMPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
RPD= Relative Percent Difference

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:		Run Date:	3/19/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	03-147-04	SMPL DF:	1
Matrix:	Water	BLK FLNM:	6BK06499	SMPL FLNM:	6BF06505	MS DF:	1
Units:	ug/L	BLK2 FLNM:	NA	MS FLNM:	6BF06506	MSD DF:	1
		LCS FLNM:	6QC06498	MSD FLNM:	6BF06507		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	%	%	%	%	%	%	%	%	%	%
p-isopropyl-toluene	5.0	ND	ND	22.6	NA	20.0	ND	17.4	19.3	20.0	113.0	NA	85.0	122.0	87.0	96.5	60.0	140.0	10.4	20.0
1,3-dichlorobenzene	5.0	ND	ND	21.6	NA	20.0	ND	18.5	20.3	20.0	108.0	NA	73.0	127.0	92.5	101.5	60.0	140.0	9.3	20.0
1,4-dichlorobenzene	5.0	ND	ND	20.7	NA	20.0	ND	18.1	20.0	20.0	103.5	NA	63.0	137.0	90.5	100.0	18.0	190.0	10.0	20.0
n-butyl-benzene	5.0	ND	ND	23.1	NA	20.0	ND	17.7	19.4	20.0	115.5	NA	70.0	130.0	88.5	97.0	60.0	140.0	9.2	20.0
1,2-dichlorobenzene	5.0	ND	ND	21.7	NA	20.0	ND	19.8	21.6	20.0	108.5	NA	63.0	137.0	99.0	108.0	19.0	190.0	8.7	20.0
,2-dibromo-3-chloropropane	5.0	ND	ND	21.1	NA	20.0	ND	23.4	23.9	20.0	105.5	NA	71.0	128.0	117.0	119.5	60.0	140.0	2.1	20.0
1,2,4-trichlorobenzene	5.0	ND	ND	22.1	NA	20.0	ND	19.6	21.4	20.0	110.5	NA	60.0	124.0	98.0	107.0	60.0	140.0	8.8	20.0
hexachlorobutadiene	5.0	ND	ND	21.2	NA	20.0	ND	15.4	17.5	20.0	106.0	NA	70.0	130.0	77.0	87.5	60.0	140.0	12.8	20.0
napthalene	10.0	ND	ND	22.2	NA	20.0	ND	23.0	24.1	20.0	111.0	NA	70.0	161.0	115.0	120.5	60.0	140.0	4.7	20.0
1,2,3-trichlorobenzene	5.0	ND	ND	21.9	NA	20.0	ND	20.7	22.2	20.0	109.5	NA	26.0	171.0	103.5	111.0	60.0	140.0	7.0	20.0

BLK2= Second Method Blank
LCS= Laboratory Control Sample
LCS2= Second Laboratory Control Sample
SMPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
RPD= Relative Percent Difference

ND= Not Detected
NA= Not Applicable
RDL= Reporting Detection Limit
BLK= Method Blank

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG38045	Run Date:	3/20/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	03-281-01	SMPL DF:	10
Matrix:	Water	BLK FLNM:	6BK06522	SMPL FLNM:	6BR06524	MS DF:	10
Units:	ug/L	BLK2 FLNM:	NA	MS FLNM:	6BR06525	MSD DF:	10
		LCS FLNM:	6QC06521	MSD FLNM:	6BR06526		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	%	%	%	%	%	%	%	%	%	%
dichlorodifluoromethane	10.0	ND	ND	10.9	NA	20.0	ND	8.4	7.3	20.0	54.5	NA	24.0	181.0	41.9	36.6	60.0	140.0	13.5	20.0
chloromethane	10.0	ND	ND	15.7	NA	20.0	ND	13.8	13.3	20.0	78.5	NA	D	204.0	69.0	66.5	D	273.0	3.7	20.0
vinyl chloride	10.0	ND	ND	17.2	NA	20.0	ND	14.3	12.7	20.0	86.0	NA	4.0	196.0	71.5	63.5	D	251.0	11.9	20.0
bromomethane	10.0	ND	ND	19.9	NA	20.0	ND	18.2	17.5	20.0	99.5	NA	14.0	186.0	91.0	87.5	D	242.0	3.9	20.0
chloroethane	10.0	ND	ND	18.7	NA	20.0	ND	16.0	15.3	20.0	93.5	NA	38.0	162.0	80.0	76.5	14.0	230.0	4.5	20.0
trichlorofluoromethane	10.0	ND	ND	18.0	NA	20.0	ND	14.4	12.5	20.0	90.0	NA	48.0	152.0	72.0	62.5	17.0	181.0	14.1	20.0
freon 113	10.0	ND	ND	NA	NA	20.0	ND	NA	NA	20.0	NA	NA	NA	NA	NA	NA	70.0	130.0	NA	20.0
acetone	10.0	ND	ND	17.2	NA	20.0	ND	16.1	16.6	20.0	86.0	NA	NA	NA	80.5	83.0	70.0	130.0	3.1	20.0
1,1-dichloroethene	5.0	ND	ND	22.5	NA	20.0	ND	17.0	15.7	20.0	112.5	NA	51.0	150.0	85.0	78.5	D	234.0	8.0	20.0
iodomethane	10.0	ND	ND	NA	NA	20.0	ND	NA	NA	20.0	NA	NA	NA	NA	NA	NA	70.0	130.0	NA	20.0
methylene chloride	5.0	ND	ND	20.3	NA	20.0	ND	18.7	18.9	20.0	101.5	NA	61.0	140.0	93.5	94.5	D	221.0	1.1	20.0
carbon disulfide	5.0	ND	ND	20.7	NA	20.0	ND	16.9	15.0	20.0	103.5	NA	NA	NA	84.5	75.0	70.0	130.0	11.9	20.0
acrylonitrile	100.0	ND	ND	NA	NA	20.0	ND	NA	NA	20.0	NA	NA	NA	NA	NA	NA	70.0	130.0	NA	20.0
trans-1,2-dichloroethene	5.0	ND	ND	23.7	NA	20.0	ND	19.1	18.3	20.0	118.5	NA	70.0	131.0	95.5	91.5	54.0	156.0	4.3	20.0
vinyl acetate	10.0	ND	ND	9.4	NA	20.0	ND	8.0	8.3	20.0	47.0	NA	9.0	236.0	40.1	41.5	9.0	236.0	3.6	20.0
1,1-dichloroethane	5.0	ND	ND	21.7	NA	20.0	ND	19.1	18.6	20.0	108.5	NA	82.0	124.0	95.5	93.0	59.0	155.0	2.7	20.0
2-butanone	5.0	ND	ND	20.0	NA	20.0	ND	18.7	19.1	20.0	100.0	NA	NA	NA	93.5	95.5	70.0	130.0	2.1	20.0
2,2-dichloropropane	5.0	ND	ND	23.3	NA	20.0	ND	18.7	17.1	20.0	116.5	NA	72.0	123.0	93.5	85.5	60.0	140.0	8.9	20.0
cis-1,2-dichloroethene	5.0	ND	ND	22.0	NA	20.0	ND	19.5	19.4	20.0	110.0	NA	82.0	118.0	97.5	97.0	60.0	140.0	0.5	20.0
chloroform	5.0	ND	ND	21.2	NA	20.0	ND	22.9	22.4	20.0	106.0	NA	68.0	133.0	114.5	112.0	51.0	138.0	2.2	20.0

Notes and Definitions:

RDL= Reporting Detection Limit
BLK= Method Blank
BLK2= Second Method Blank
LCS= Laboratory Control Sample
LCS2= Second Laboratory Control Sample
SMPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
RPD= Relative Percent Difference

ND= Not Detected
NA= Not Applicable

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG38045	Run Date:	3/20/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	03-281-01	SMPL DF:	10
Matrix:	Water	BLK FLNM:	6BK06522	SMPL FLNM:	6BR06524	MS DF:	10
Units:	ug/L	BLK2 FLNM:	NA	MS FLNM:	6BR06525	MSD DF:	10
		LCS FLNM:	6QC06521	MSD FLNM:	6BR06526		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	%	%	%	%	%	%	%	%	%	%
bromochloromethane	5.0	ND	ND	21.1	NA	20.0	ND	20.6	20.8	20.0	105.5	NA	80.0	120.0	103.0	104.0	60.0	140.0	1.0	20.0
1,1,1-trichloroethane	5.0	ND	ND	21.8	NA	20.0	ND	18.1	16.5	20.0	109.0	NA	75.0	125.0	90.5	82.5	52.0	162.0	9.2	20.0
1,1-dichloropropene	5.0	ND	ND	24.9	NA	20.0	ND	19.4	17.6	20.0	124.5	NA	80.0	120.0	97.0	88.0	60.0	140.0	9.7	20.0
carbon tetrachloride	5.0	ND	ND	22.0	NA	20.0	ND	18.4	16.2	20.0	110.0	NA	73.0	127.0	92.0	81.0	70.0	140.0	12.7	20.0
1,2-dichloroethane	5.0	ND	ND	21.4	NA	20.0	ND	21.7	21.5	20.0	107.0	NA	68.0	132.0	108.5	107.5	49.0	155.0	0.9	20.0
benzene	5.0	ND	ND	21.8	NA	20.0	ND	19.0	18.4	20.0	109.0	NA	84.0	136.0	95.0	92.0	37.0	151.0	3.2	20.0
trichloroethene	5.0	ND	ND	22.6	NA	20.0	ND	18.8	17.7	20.0	113.0	NA	67.0	134.0	94.0	88.5	71.0	157.0	6.0	20.0
1,2-dichloropropane	5.0	ND	ND	21.5	NA	20.0	ND	20.0	19.9	20.0	107.5	NA	34.0	166.0	100.0	99.5	D	210.0	0.5	20.0
bromodichloromethane	5.0	ND	ND	22.0	NA	20.0	ND	23.4	23.1	20.0	110.0	NA	66.0	135.0	117.0	115.5	35.0	155.0	1.3	20.0
dibromomethane	5.0	ND	ND	21.0	NA	20.0	ND	21.5	21.5	20.0	105.0	NA	80.0	120.0	107.5	107.5	60.0	140.0	0.0	20.0
2-chloroethylvinyl-ether	5.0	ND	ND	21.8	NA	20.0	ND	8.8	4.7	20.0	109.0	NA	NA	NA	44.2	23.5	70.0	130.0	NA	20.0
4-methyl-2-pentanone	10.0	ND	ND	20.0	NA	20.0	ND	20.2	20.1	20.0	100.0	NA	NA	NA	101.0	100.5	70.0	130.0	0.5	20.0
cis-1,3-dichloropropene	5.0	ND	ND	24.4	NA	20.0	ND	23.1	23.1	20.0	122.0	NA	24.0	176.0	115.5	115.5	D	227.0	0.0	20.0
toluene	5.0	ND	ND	23.7	NA	20.0	ND	20.3	19.8	20.0	118.5	NA	75.0	126.0	101.5	99.0	47.0	150.0	2.5	20.0
trans-1,3-dichloropropene	5.0	ND	ND	23.6	NA	20.0	ND	22.8	23.2	20.0	118.0	NA	50.0	150.0	114.0	116.0	17.0	183.0	1.7	20.0
1,1,2-trichloroethane	5.0	ND	ND	21.8	NA	20.0	ND	21.8	22.0	20.0	109.0	NA	71.0	129.0	109.0	110.0	52.0	150.0	0.9	20.0
2-hexanone	10.0	ND	ND	19.7	NA	20.0	ND	19.1	19.9	20.0	98.5	NA	NA	NA	95.5	99.5	70.0	130.0	4.1	20.0
1,3-dichloropropane	5.0	ND	ND	22.2	NA	20.0	ND	22.2	22.4	20.0	111.0	NA	70.0	130.0	111.0	112.0	60.0	140.0	0.9	20.0
tetrachloroethene	5.0	ND	ND	23.1	NA	20.0	ND	18.6	17.0	20.0	115.5	NA	74.0	127.0	93.0	85.0	64.0	148.0	9.0	20.0
dibromochloromethane	5.0	ND	ND	22.6	NA	20.0	ND	23.3	23.9	20.0	113.0	NA	68.0	133.0	116.5	119.5	53.0	149.0	2.5	20.0

Notes and Definitions:

RDL= Reporting Detection Limit
ND= Not Detected
BLK= Method Blank
NA= Not Applicable
BLK2= Second Method Blank
LCS= Laboratory Control Sample
LCS2= Second Laboratory Control Sample
SMPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
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0010

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG38045	Run Date:	3/20/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	03-281-01	SMPL DF:	10
Matrix:	Water	BLK FLNM:	6BK06522	SMPL FLNM:	6BR06524	MS DF:	10
Units:	ug/L	BLK2 FLNM:	NA	MS FLNM:	6BR06525	MSD DF:	10
		LCS FLNM:	6QC06521	MSD FLNM:	6BR06526		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	%	%	%	%	%	%	%	%	%	%
1,2-dibromoethane	5.0	ND	ND	23.0	NA	20.0	ND	22.7	23.3	20.0	115.0	NA	77.0	123.0	113.5	116.5	60.0	140.0	2.6	20.0
chlorobenzene	5.0	ND	ND	22.2	NA	20.0	ND	20.2	20.0	20.0	111.0	NA	66.0	134.0	101.0	100.0	37.0	160.0	1.0	20.0
1,1,1,2-tetrachloroethane	5.0	ND	ND	22.5	NA	20.0	ND	21.4	21.2	20.0	112.5	NA	75.0	121.0	107.0	106.0	60.0	140.0	0.9	20.0
ethylbenzene	5.0	ND	ND	22.8	NA	20.0	ND	19.5	18.5	20.0	114.0	NA	59.0	141.0	97.5	92.5	37.0	162.0	5.3	20.0
m+p-xylene	5.0	ND	ND	46.3	NA	40.0	ND	39.9	38.1	40.0	115.8	NA	76.0	121.0	99.8	95.3	60.0	140.0	4.6	20.0
o-xylene	5.0	ND	ND	23.5	NA	20.0	ND	20.7	20.4	20.0	117.5	NA	78.0	119.0	103.5	102.0	60.0	140.0	1.5	20.0
styrene	5.0	ND	ND	23.5	NA	20.0	ND	21.6	21.2	20.0	117.5	NA	76.0	119.0	108.0	106.0	60.0	140.0	1.9	20.0
bromoform	5.0	ND	ND	21.6	NA	20.0	ND	22.7	22.9	20.0	108.0	NA	71.0	129.0	113.5	114.5	45.0	169.0	0.9	20.0
isopropylbenzene	5.0	ND	ND	24.9	NA	20.0	ND	20.8	19.3	20.0	124.5	NA	70.0	130.0	104.0	96.5	60.0	140.0	7.5	20.0
1,1,2,2-tetrachloroethane	5.0	ND	ND	21.7	NA	20.0	ND	21.8	22.0	20.0	108.5	NA	61.0	140.0	109.0	110.0	46.0	157.0	0.9	20.0
1,2,3-trichloropropane	5.0	ND	ND	22.5	NA	20.0	ND	23.1	23.5	20.0	112.5	NA	78.0	130.0	115.5	117.5	60.0	140.0	1.7	20.0
trans-1,4-dichloro-2-butene	5.0	ND	ND	NA	NA	20.0	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
propyl-benzene	5.0	ND	ND	24.7	NA	20.0	ND	19.6	18.4	20.0	123.5	NA	70.0	128.0	98.0	92.0	60.0	140.0	6.3	20.0
bromobenzene	5.0	ND	ND	22.8	NA	20.0	ND	20.8	20.9	20.0	114.0	NA	77.0	128.0	104.0	104.5	60.0	140.0	0.5	20.0
1,3,5-trimethylbenzene	5.0	ND	ND	24.9	NA	20.0	ND	20.3	19.6	20.0	124.5	NA	81.0	118.0	101.5	98.0	60.0	140.0	3.5	20.0
2-chlorotoluene	5.0	ND	ND	23.5	NA	20.0	ND	19.9	19.9	20.0	117.5	NA	82.0	126.0	99.5	99.5	60.0	140.0	0.0	20.0
4-chlorotoluene	5.0	ND	ND	24.1	NA	20.0	ND	20.6	20.0	20.0	120.5	NA	74.0	125.0	103.0	100.0	60.0	140.0	3.0	20.0
tert-butyl-benzene	5.0	ND	ND	23.8	NA	20.0	ND	18.4	17.4	20.0	119.0	NA	81.0	122.0	92.0	87.0	60.0	140.0	5.8	20.0
1,2,4-trimethylbenzene	5.0	ND	ND	24.2	NA	20.0	ND	20.3	19.8	20.0	121.0	NA	80.0	118.0	101.5	99.0	60.0	140.0	2.5	20.0
sec-butyl-benzene	5.0	ND	ND	24.4	NA	20.0	ND	18.8	17.4	20.0	122.0	NA	83.0	122.0	94.0	87.0	60.0	140.0	7.7	20.0

Notes and Definitions:

RDL= Reporting Detection Limit
BLK= Method Blank
BLK2= Second Method Blank
LCS= Laboratory Control Sample
LCS2= Second Laboratory Control Sample
SMPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
RPD= Relative Percent Difference

ND= Not Detected
NA= Not Applicable

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:		Run Date:	3/20/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260A	Instrument ID:	HPMS_6	SMPL Num:	03-281-01	SMPL DF:	10
Matrix:	Water	BLK FLNM:	6BK06522	SMPL FLNM:	6BR06524	MS DF:	10
Units:	ug/L	BLK2 FLNM:	NA	MS FLNM:	6BR06525	MSD DF:	10
		LCS FLNM:	6QC06521	MSD FLNM:	6BR06526		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	%	%	%	%	%	%	%	%	%	%
p-isopropyl-toluene	5.0	ND	ND	24.2	NA	20.0	ND	19.1	17.9	20.0	121.0	NA	85.0	122.0	95.5	89.5	60.0	140.0	6.5	20.0
1,3-dichlorobenzene	5.0	ND	ND	23.1	NA	20.0	ND	20.5	20.5	20.0	115.5	NA	73.0	127.0	102.5	102.5	60.0	140.0	0.0	20.0
1,4-dichlorobenzene	5.0	ND	ND	22.0	NA	20.0	ND	20.0	20.0	20.0	110.0	NA	63.0	137.0	100.0	100.0	18.0	190.0	0.0	20.0
n-butyl-benzene	5.0	ND	ND	24.6	NA	20.0	ND	19.2	17.8	20.0	123.0	NA	70.0	130.0	96.0	89.0	60.0	140.0	7.8	20.0
1,2-dichlorobenzene	5.0	ND	ND	23.3	NA	20.0	ND	21.5	21.7	20.0	116.5	NA	63.0	137.0	107.5	108.5	19.0	190.0	0.9	20.0
,2-dibromo-3-chloropropan	5.0	ND	ND	22.5	NA	20.0	ND	21.9	23.5	20.0	112.5	NA	71.0	128.0	109.5	117.5	60.0	140.0	7.0	20.0
1,2,4-trichlorobenzene	5.0	ND	ND	23.4	NA	20.0	ND	21.2	21.7	20.0	117.0	NA	60.0	124.0	106.0	108.5	60.0	140.0	2.3	20.0
hexachlorobutadiene	5.0	ND	ND	22.2	NA	20.0	ND	17.0	15.8	20.0	111.0	NA	70.0	130.0	85.0	79.0	60.0	140.0	7.3	20.0
napthalene	10.0	ND	ND	23.7	NA	20.0	ND	22.9	23.7	20.0	118.5	NA	70.0	161.0	114.5	118.5	60.0	140.0	3.4	20.0
1,2,3-trichlorobenzene	5.0	ND	ND	23.2	NA	20.0	ND	21.5	22.2	20.0	116.0	NA	26.0	171.0	107.5	111.0	60.0	140.0	3.2	20.0

BLK2= Second Method Blank
LCS= Laboratory Control Sample
LCS2= Second Laboratory Control Sample
SMPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
RPD= Relative Percent Difference

ND= Not Detected
NA= Not Applicable
RDL= Reporting Detection Limit
BLK= Method Blank

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG38075	Run Date:	3/20/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260B	Instrument ID:	HPMS_8	SMPL Num:	03-264-01	SMPL DF:	1
Matrix:	Soil	BLK FLNM:	8BK00679	SMPL FLNM:	8BR00658	MS DF:	1
Units:	ug/kg	BLK2 FLNM:	NA	MS FLNM:	8BR00659.D	MSD DF:	1
		LCS FLNM:	8LC00682.D	MSD FLNM:	8BR00660.D		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
dichlorodifluoromethane	1.0	ND	ND	13.9	NA	20.0	ND	24.7	28.7	50.0	69.7	NA	46.0	152.0	49.4	57.5	46.0	152.0	15.0	20.0
chloromethane	1.0	ND	ND	17.9	NA	20.0	ND	32.4	35.2	50.0	89.7	NA	64.0	140.0	64.7	70.3	64.0	140.0	8.3	20.0
vinyl chloride	1.0	ND	ND	22.0	NA	20.0	ND	34.2	39.1	50.0	110.1	NA	70.0	137.0	68.4	78.1	70.0	137.0	13.3	20.0
bromomethane	1.0	ND	ND	23.7	NA	20.0	ND	40.5	42.8	50.0	118.6	NA	62.0	147.0	81.0	85.7	62.0	147.0	5.6	20.0
chloroethane	1.0	ND	ND	24.3	NA	20.0	ND	41.4	45.1	50.0	121.7	NA	69.0	136.0	82.8	90.2	69.0	136.0	8.5	20.0
trichlorofluoromethane	1.0	ND	ND	22.9	NA	20.0	ND	40.9	45.6	50.0	114.4	NA	70.0	134.0	81.9	91.3	70.0	134.0	10.8	20.0
freon 113	NTC	ND	ND	NA	NA	20.0	ND	NA	NA	50.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.0
acetone	NTC	ND	ND	24.5	NA	20.0	ND	49.1	40.9	50.0	122.5	NA	14.0	171.0	98.2	81.9	14.0	171.0	18.1	20.0
1,1-dichloroethene	1.0	ND	ND	28.0	NA	20.0	ND	44.2	49.2	50.0	139.9	NA	70.0	140.0	88.3	98.3	70.0	140.0	10.7	20.0
iodomethane	NTC	ND	ND	28.1	NA	20.0	ND	39.4	44.3	50.0	140.5	NA	50.0	150.0	78.9	88.6	50.0	150.0	11.6	20.0
methylene chloride	1.0	ND	ND	24.4	NA	20.0	ND	47.2	46.5	50.0	122.2	NA	57.0	146.0	94.3	93.0	57.0	146.0	1.4	20.0
carbon disulfide	NTC	ND	ND	25.3	NA	20.0	ND	33.0	39.5	50.0	126.5	NA	69.0	125.0	65.9	78.9	69.0	125.0	18.0	20.0
acrylonitrile	NTC	ND	ND	NA	NA	20.0	ND	NA	NA	50.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.0
trans-1,2-dichloroethene	1.0	ND	ND	29.5	NA	20.0	ND	45.3	48.8	50.0	147.6	NA	75.0	141.0	90.5	97.6	75.0	141.0	7.5	20.0
vinyl acetate	NTC	ND	ND	11.4	NA	20.0	ND	0.0	0.0	50.0	56.8	NA	D	132.0	0.0	0.0	D	132.0	#DIV/0!	20.0
1,1-dichloroethane	1.0	ND	ND	26.3	NA	20.0	ND	50.0	52.0	50.0	131.3	NA	79.0	125.0	99.9	104.0	79.0	125.0	4.0	20.0
2-butanone	NTC	ND	ND	25.4	NA	20.0	ND	51.9	44.0	50.0	127.1	NA	28.0	173.0	103.8	88.0	28.0	173.0	16.5	20.0
2,2-dichloropropane	1.0	ND	ND	26.7	NA	20.0	ND	50.7	54.1	50.0	133.7	NA	69.0	128.0	101.5	108.3	69.0	128.0	6.5	20.0
cis-1,2-dichloroethene	1.0	ND	ND	25.2	NA	20.0	ND	43.5	44.0	50.0	126.2	NA	75.0	125.0	87.0	88.0	75.0	125.0	1.1	20.0
chloroform	1.0	ND	ND	26.2	NA	20.0	ND	49.2	50.1	50.0	130.9	NA	78.0	124.0	98.5	100.1	78.0	124.0	1.6	20.0

Notes and Definitions:

RDL = Reporting Detection Limit
BLK = Method Blank
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LCS = Laboratory Control Sample
LCS2 = Second Laboratory Control Sample
SMPL = Sample Results
MS/MSD = Matrix Spike / Matrix Spike Duplicate
LCL = Lower Control Limit
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RPD = Relative Percent Difference

ND = Not Detected
NA = Not Applicable

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG38075	Run Date:	3/20/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260B	Instrument ID:	HPMS_8	SMPL Num:	03-264-01	SMPL DF:	1
Matrix:	Soil	BLK FLNM:	8BK00679	SMPL FLNM:	8BR00658	MS DF:	1
Units:	ug/kg	BLK2 FLNM:	NA	MS FLNM:	8BR00659.D	MSD DF:	1
		LCS FLNM:	8LC00682.D	MSD FLNM:	8BR00660.D		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
	RDL	BLK	BLK2	LCS	LCS2	LCS Spike Level	SMPL	MS	MSD	MS Spike Level	LCS	LCS2	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	MS RPD	RPD UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
bromochloromethane	1.0	ND	ND	26.7	NA	20.0	ND	50.2	47.3	50.0	133.5	NA	78.0	125.0	100.4	94.5	78.0	125.0	6.0	20.0
1,1,1-trichloroethane	1.0	ND	ND	26.5	NA	20.0	ND	49.4	53.9	50.0	132.5	NA	77.0	124.0	98.9	107.8	77.0	124.0	8.6	20.0
1,1-dichloropropene	1.0	ND	ND	28.8	NA	20.0	ND	43.6	47.0	50.0	143.9	NA	85.0	132.0	87.2	93.9	85.0	132.0	7.4	20.0
carbon tetrachloride	1.0	ND	ND	26.3	NA	20.0	ND	48.0	53.1	50.0	131.4	NA	77.0	126.0	95.9	106.1	77.0	126.0	10.1	20.0
1,2-dichloroethane	1.0	ND	ND	25.9	NA	20.0	ND	53.0	49.4	50.0	129.4	NA	75.0	126.0	105.9	98.8	75.0	126.0	6.9	20.0
benzene	1.0	ND	ND	25.7	NA	20.0	ND	45.7	47.2	50.0	128.6	NA	81.0	122.0	91.4	94.4	81.0	122.0	3.3	20.0
trichloroethene	1.0	ND	ND	26.3	NA	20.0	ND	43.7	46.3	50.0	131.5	NA	81.0	123.0	87.5	92.7	81.0	123.0	5.8	20.0
1,2-dichloropropane	1.0	ND	ND	25.8	NA	20.0	ND	50.9	50.8	50.0	128.9	NA	79.0	125.0	101.8	101.7	79.0	125.0	0.1	20.0
bromodichloromethane	1.0	ND	ND	26.7	NA	20.0	ND	52.3	51.7	50.0	133.7	NA	81.0	123.0	104.6	103.5	81.0	123.0	1.0	20.0
dibromomethane	1.0	ND	ND	27.1	NA	20.0	ND	50.7	46.4	50.0	135.5	NA	80.0	126.0	101.3	92.8	80.0	126.0	8.7	20.0
2-chloroethylvinyl-ether	NTC	ND	ND	44.6	NA	20.0	ND	85.3	84.6	50.0	223.0	NA	50.0	151.0	170.6	169.2	50.0	151.0	0.8	20.0
4-methyl-2-pentanone	NTC	ND	ND	28.7	NA	20.0	ND	54.6	47.3	50.0	143.3	NA	38.0	162.0	109.2	94.6	38.0	162.0	14.4	20.0
cis-1,3-dichloropropene	1.0	ND	ND	27.3	NA	20.0	ND	47.0	45.0	50.0	136.6	NA	81.0	124.0	94.0	90.0	81.0	124.0	4.4	20.0
toluene	1.0	ND	ND	24.8	NA	20.0	ND	38.8	40.5	50.0	123.8	NA	80.0	124.0	77.5	81.1	80.0	124.0	4.4	20.0
trans-1,3-dichloropropene	1.0	ND	ND	26.0	NA	20.0	ND	43.6	40.9	50.0	129.8	NA	80.0	122.0	87.1	81.7	80.0	122.0	6.4	20.0
1,1,2-trichloroethane	1.0	ND	ND	25.4	NA	20.0	ND	50.6	47.0	50.0	126.8	NA	79.0	123.0	101.2	93.9	79.0	123.0	7.5	20.0
2-hexanone	NTC	ND	ND	25.7	NA	20.0	ND	40.7	35.6	50.0	128.3	NA	31.0	149.0	81.4	71.2	31.0	149.0	13.3	20.0
1,3-dichloropropane	1.0	ND	ND	24.9	NA	20.0	ND	47.7	44.4	50.0	124.7	NA	79.0	123.0	95.4	88.8	79.0	123.0	7.1	20.0
tetrachloroethene	1.0	ND	ND	25.5	NA	20.0	ND	36.4	39.5	50.0	127.3	NA	80.0	122.0	72.8	78.9	80.0	122.0	8.1	20.0
dibromochloromethane	1.0	ND	ND	25.4	NA	20.0	ND	50.0	47.6	50.0	126.8	NA	81.0	122.0	100.0	95.2	81.0	122.0	5.0	20.0

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KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG38075	Run Date:	3/20/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260B	Instrument ID:	HPMS_8	SMPL Num:	03-264-01	SMPL DF:	1
Matrix:	Soil	BLK FLNM:	8BK00679	SMPL FLNM:	8BR00658	MS DF:	1
Units:	ug/kg	BLK2 FLNM:	NA	MS FLNM:	8BR00659.D	MSD DF:	1
		LCS FLNM:	8LC00682.D	MSD FLNM:	8BR00660.D		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
1,2-dibromoethane	1.0	ND	ND	25.9	NA	20.0	ND	47.0	42.6	50.0	129.5	NA	79.0	125.0	93.9	85.3	79.0	125.0	9.7	20.0
chlorobenzene	1.0	ND	ND	25.1	NA	20.0	ND	37.8	38.1	50.0	125.7	NA	82.0	124.0	75.6	76.2	82.0	124.0	0.9	20.0
1,1,1,2-tetrachloroethane	1.0	ND	ND	25.2	NA	20.0	ND	49.0	49.1	50.0	126.0	NA	80.0	124.0	97.9	98.2	80.0	124.0	0.3	20.0
ethylbenzene	1.0	ND	ND	25.0	NA	20.0	ND	37.6	39.0	50.0	125.2	NA	78.0	127.0	75.2	78.0	78.0	127.0	3.7	20.0
m+p-xylene	1.0	ND	ND	50.1	NA	40.0	ND	74.1	77.2	100.0	125.2	NA	81.0	124.0	74.1	77.2	81.0	124.0	4.1	20.0
o-xylene	1.0	ND	ND	25.0	NA	20.0	ND	40.2	41.0	50.0	124.9	NA	83.0	124.0	80.3	82.0	83.0	124.0	2.1	20.0
styrene	1.0	ND	ND	26.1	NA	20.0	ND	39.1	39.0	50.0	130.6	NA	80.0	122.0	78.1	78.0	80.0	122.0	0.1	20.0
bromoform	1.0	ND	ND	25.3	NA	20.0	ND	49.8	45.1	50.0	126.4	NA	67.0	134.0	99.6	90.3	67.0	134.0	9.8	20.0
isopropylbenzene	1.0	ND	ND	25.5	NA	20.0	ND	38.1	39.8	50.0	127.4	NA	82.0	124.0	76.1	79.6	82.0	124.0	4.4	20.0
1,1,2,2-tetrachloroethane	1.0	ND	ND	26.8	NA	20.0	ND	52.2	45.4	50.0	134.1	NA	71.0	136.0	104.4	90.8	71.0	136.0	13.9	20.0
1,2,3-trichloropropane	1.0	ND	ND	26.5	NA	20.0	ND	54.4	47.7	50.0	132.6	NA	70.0	139.0	108.7	95.4	70.0	139.0	13.1	20.0
trans-1,4-dichloro-2-butene	NTC	ND	ND	NA	NA	20.0	ND	NA	NA	50.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
propyl-benzene	1.0	ND	ND	24.5	NA	20.0	ND	34.4	35.8	50.0	122.5	NA	79.0	124.0	68.7	71.6	79.0	124.0	4.2	20.0
bromobenzene	1.0	ND	ND	23.8	NA	20.0	ND	36.0	35.5	50.0	118.8	NA	80.0	122.0	72.0	71.0	80.0	122.0	1.4	20.0
1,3,5-trimethylbenzene	1.0	ND	ND	24.4	NA	20.0	ND	37.8	38.3	50.0	122.0	NA	82.0	123.0	75.5	76.6	82.0	123.0	1.4	20.0
2-chlorotoluene	1.0	ND	ND	24.5	NA	20.0	ND	35.5	36.4	50.0	122.4	NA	77.0	126.0	71.0	72.8	77.0	126.0	2.4	20.0
4-chlorotoluene	1.0	ND	ND	23.7	NA	20.0	ND	33.7	33.3	50.0	118.5	NA	80.0	124.0	67.4	66.6	80.0	124.0	1.2	20.0
tert-butyl-benzene	1.0	ND	ND	24.0	NA	20.0	ND	36.8	38.6	50.0	119.9	NA	78.0	122.0	73.6	77.1	78.0	122.0	4.6	20.0
1,2,4-trimethylbenzene	1.0	ND	ND	25.2	NA	20.0	ND	38.4	38.5	50.0	126.1	NA	83.0	123.0	76.8	76.9	83.0	123.0	0.1	20.0
sec-butyl-benzene	1.0	ND	ND	24.8	NA	20.0	ND	34.5	36.0	50.0	123.9	NA	80.0	124.0	68.9	71.9	80.0	124.0	4.3	20.0

Notes and Definitions:

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KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #:	WG38075	Run Date:	3/20/98	LCS2 FLNM:	NA	LCS DF:	1
Method:	8260B	Instrument ID:	HPMS_8	SMPL Num:	03-264-01	SMPL DF:	1
Matrix:	Soil	BLK FLNM:	8BK00679	SMPL FLNM:	8BR00658	MS DF:	1
Units:	ug/kg	BLK2 FLNM:	NA	MS FLNM:	8BR00659.D	MSD DF:	1
		LCS FLNM:	8LC00682.D	MSD FLNM:	8BR00660.D		

		CONCENTRATION, PPB									PERCENT RECOVERY								PERCENT RPD	
						LCS Spike				MS Spike			LCS	LCS			MS	MS	MS	RPD
	RDL	BLK	BLK2	LCS	LCS2	Level	SMPL	MS	MSD	Level	LCS	LCS2	LCL	UCL	MS	MSD	LCL	UCL	RPD	UCL
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%	%
p-isopropyl-toluene	1.0	ND	ND	25.0	NA	20.0	ND	34.5	35.7	50.0	124.9	NA	77.0	124.0	68.9	71.3	77.0	124.0	3.4	20.0
1,3-dichlorobenzene	1.0	ND	ND	24.1	NA	20.0	ND	32.0	31.5	50.0	120.4	NA	82.0	120.0	63.9	63.0	82.0	120.0	1.5	20.0
1,4-dichlorobenzene	1.0	ND	ND	23.5	NA	20.0	ND	31.0	30.3	50.0	117.3	NA	81.0	121.0	61.9	60.6	81.0	121.0	2.2	20.0
n-butyl-benzene	1.0	ND	ND	26.1	NA	20.0	ND	31.2	32.6	50.0	130.5	NA	81.0	125.0	62.3	65.2	81.0	125.0	4.6	20.0
1,2-dichlorobenzene	1.0	ND	ND	24.4	NA	20.0	ND	35.5	33.9	50.0	122.1	NA	84.0	122.0	71.0	67.9	84.0	122.0	4.5	20.0
1,2-dibromo-3-chloropropane	10.0	ND	ND	27.1	NA	20.0	ND	55.1	47.7	50.0	135.3	NA	55.0	155.0	110.2	95.4	55.0	155.0	14.5	20.0
1,2,4-trichlorobenzene	1.0	ND	ND	25.0	NA	20.0	ND	28.9	27.3	50.0	124.9	NA	78.0	124.0	57.9	54.5	78.0	124.0	5.9	20.0
hexachlorobutadiene	1.0	ND	ND	23.7	NA	20.0	ND	24.9	26.3	50.0	118.4	NA	73.0	127.0	49.8	52.6	73.0	127.0	5.5	20.0
napthalene	1.0	ND	ND	26.3	NA	20.0	ND	39.6	34.9	50.0	131.6	NA	56.0	152.0	79.1	69.7	56.0	152.0	12.7	20.0
1,2,3-trichlorobenzene	1.0	ND	ND	23.9	NA	20.0	ND	29.9	28.0	50.0	119.3	NA	76.0	128.0	59.9	56.1	76.0	128.0	6.6	20.0

BLK2 = Second Method Blank
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BLK = Method Blank

KEMRON ENVIRONMENTAL SERVICES, INC.

MARIETTA, OH

QUALITY CONTROL / METHOD 8260 SOIL EXTRACTIONS

RUN DATE:	03/20/98	BLK FLNM:	2BK23310	SMPL NAME:	03-172-06
EXTRACT DATE	03/20/98	LCS FLNM:	2QC23309	SMPL DF:	125
INSTRUMENT:	HPMS_2	SHIFT:	AM	FILE NAME:	2CU23311
ANALYST(S):	SLT	WORK GROUP:	WG38044	DUP FLNM:	2CU23312

VOA COMPOUND	PRACTICAL QUANTITATION LIMIT (PQL) ug/Kg	METHOD BLANK ug/Kg	LCS 20 ug/Kg ug/Kg	LCS PERCENT RECOVERY %	CONTROL LIMITS %REC	SAMPLE RESULT ug/Kg	SAMPLE DUP ug/Kg	PERCENT RPD	ADVISORY LIMITS %
Dichlorodifluoromethane	10	ND	8.6	42.8	D - 132	0.0	0.0	NA	20
Chloromethane	10	ND	11.4	57.0	20-142	0.0	0.0	NA	20
Vinyl chloride	10	ND	6.6	32.8	24-134	0.0	0.0	NA	20
Bromomethane	10	ND	15.6	78.0	13-154	0.0	0.0	NA	20
Chloroethane	10	ND	15.5	77.5	6-155	0.0	0.0	NA	20
Trichlorofluoromethane	10	ND	16.0	80.0	D-151	0.0	0.0	NA	20
1,1-Dichloroethene	5	ND	17.0	85.0	43-126	0.0	0.0	NA	20
Methylene chloride	5	ND	15.1	75.5	32-135	0.0	0.0	NA	20
trans-1,2-Dichloroethene	5	ND	18.0	90.0	52-121	0.0	0.0	NA	20
1,1-Dichloroethane	5	ND	16.6	83.0	63-113	0.0	0.0	NA	20
2,2-Dichloropropane	5	ND	17.3	86.5	59-121	0.0	0.0	NA	20
cis-1,2-Dichloroethene	5	ND	15.9	79.5	60-118	0.0	0.0	NA	20
Bromochloromethane	5	ND	16.0	80.0	61-118	0.0	0.0	NA	20
Chloroform	5	ND	16.9	84.5	69-114	0.0	0.0	NA	20
1,1,1-Trichloroethane	5	ND	17.4	87.0	62-111	0.0	0.0	NA	20
1,1-Dichloropropene	5	ND	18.6	93.0	71-123	0.0	0.0	NA	20
Carbon tetrachloride	5	ND	17.5	87.5	42-126	0.0	0.0	NA	20
1,2-Dichloroethane	5	ND	17.6	88.0	70-124	0.0	0.0	NA	20
Benzene	5	ND	16.0	80.0	66-118	0.0	0.0	NA	20
Trichloroethene	5	ND	17.3	86.5	64-121	38.0	42.4	10.9	20
1,2-Dichloropropane	5	ND	16.3	81.5	67-134	0.0	0.0	NA	20
Bromodichloromethane	5	ND	16.7	83.5	54-128	0.0	0.0	NA	20
Dibromomethane	5	ND	17.1	85.5	68-125	0.0	0.0	NA	20
cis-1,3-Dichloropropene	5	ND	16.9	84.5	56-131	0.0	0.0	NA	20
Toluene	5	ND	16.4	82.0	61-120	0.0	0.0	NA	20
trans-1,3-Dichloropropene	5	ND	16.1	80.5	48-133	0.0	0.0	NA	20
1,1,2-Trichloroethane	5	ND	16.2	81.0	53-138	0.0	0.0	NA	20
1,3-Dichloropropane	5	ND	16.3	81.5	60-118	0.0	0.0	NA	20
Tetrachloroethene	5	ND	16.6	83.0	63-112	0.0	0.0	NA	20
Dibromochloromethane	5	ND	15.2	76.0	53-112	0.0	0.0	NA	20
1,2-Dibromoethane	5	ND	16.6	83.0	62-111	0.0	0.0	NA	20
Chlorobenzene	5	ND	16.7	83.5	66-109	0.0	0.0	NA	20
1,1,1,2-Tetrachloroethane	5	ND	16.0	80.0	50-117	0.0	0.0	NA	20
Ethylbenzene	5	ND	17.0	85.0	52-112	0.0	0.0	NA	20
m + p-Xylene	5	ND	34.1	85.3	62-112	0.0	0.0	NA	20
o-Xylene	5	ND	17.2	86.0	56-111	0.0	0.0	NA	20

KEMRON ENVIRONMENTAL SERVICES, INC.

MARIETTA, OH

QUALITY CONTROL / METHOD 8260 SOIL EXTRACTIONS

RUN DATE:	03/20/98	BLK FLNM:	2BK23310	SMPL NAME:	03-172-06
EXTRACT DATE	03/20/98	LCS FLNM:	2QC23309	SMPL DF:	125
INSTRUMENT:	HPMS_2	SHIFT:	AM	FILE NAME:	2CU23311
ANALYST(S):	SLT	WORK GROUP:	WG38044	DUP FLNM:	2CU23312

VOA COMPOUND	PRACTICAL QUANTITATION LIMIT (PQL) ug/Kg	METHOD BLANK ug/Kg	LCS 20 ug/Kg ug/Kg	LCS PERCENT RECOVERY %	CONTROL LIMITS %REC	SAMPLE RESULT ug/Kg	SAMPLE DUP ug/Kg	PERCENT RPD	ADVISORY LIMITS %
Isopropylbenzene	5	ND	17.2	86.0	67-133	0.0	0.0	NA	20
Bromoform	5	ND	15.9	79.5	47-129	0.0	0.0	NA	20
1,1,2,2-Tetrachloroethane	5	ND	16.4	82.0	64-139	0.0	0.0	NA	20
1,2,3-Trichloropropane	5	ND	18.0	90.0	72-136	0.0	0.0	NA	20
propyl-benzene	5	ND	16.2	81.0	67-118	0.0	0.0	NA	20
Bromobenzene	5	ND	15.9	79.5	61-120	0.0	0.0	NA	20
1,3,5-Trimethylbenzene	5	ND	15.9	79.5	71-114	0.0	0.0	NA	20
2-Chlorotoluene	5	ND	15.5	77.5	67-121	0.0	0.0	NA	20
4-Chlorotoluene	5	ND	17.2	86.0	58-130	0.0	0.0	NA	20
tert-butyl-benzene	5	ND	16.1	80.5	72-114	0.0	0.0	NA	20
1,2,4-Trimethylbenzene	5	ND	16.6	83.0	73-115	0.0	0.0	NA	20.0
sec-butyl-benzene	5	ND	16.3	81.5	75-115	0.0	0.0	NA	20
p-isopropyl-toluene	5	ND	15.9	79.5	77-117	0.0	0.0	NA	20
1,3-Dichlorobenzene	5	ND	16.5	82.5	69-118	0.0	0.0	NA	20
1,4-Dichlorobenzene	5	ND	16.5	82.5	65-122	0.0	0.0	NA	20
n-butyl-benzene	5	ND	16.9	84.5	73-119	0.0	0.0	NA	20
1,2-Dichlorobenzene	5	ND	16.8	84.0	65-124	0.0	0.0	NA	20
1,2-dibromo-3-chloropropane	5	ND	16.6	83.0	55-141	0.0	0.0	NA	20
1,2,4-Trichlorobenzene	5	ND	16.7	83.5	68-118	0.0	0.0	NA	20
Hexachlorobutadiene	5	ND	16.7	83.5	75-143	0.0	0.0	NA	20
Naphthalene	10	ND	17.6	88.0	55-144	0.0	0.0	NA	20
1,2,3-Trichlorobenzene	5	ND	17.3	86.5	64-119	0.0	0.0	NA	20
Styrene	5	ND	17.1	85.5	60-140	0.0	0.0	NA	20
Acetone	100	ND	NA	NA	NA	NA	NA	NA	NA
Iodomethane	NA	ND	NA	NA	NA	NA	NA	NA	NA
Freon 113	NA	ND	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	5	ND	NA	NA	NA	NA	NA	NA	NA
2-Butanone	100	ND	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	10	ND	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	10	ND	NA	NA	NA	NA	NA	NA	NA
2-Chloroethylvinylether	10	ND	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	10	ND	NA	NA	NA	NA	NA	NA	NA

CHRYSLER CORPORATION

Chain-of-Custody

00925 A

CompuChem 501 Madison Avenue Cary, NC 27513 Phone Number: 1-800-833-5097 Fax Number: (919) 379-4050	Project Name: Dayton Thermal, Building 40B Site Location: Dayton, OH Site Code: SC001 RFA Number: YGQP4800208-T Chrysler PM: Gary Stunczuk	Consultant: Lagerette, Brusheers, Graham, Inc. Address: 1210 W. County Rd E, Suite 700 St Paul, MN 55112 Consultant PM: Ken Vogel Phone: (612) 490-1405 Fax: -1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify)

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	VOC 8260 - TCL - GC/MS - 402 wm jars	VOC 8260 - TCL - GC/MS - TCLP - 40z wm	VOC 8260 GC/MS 40ml VOA vials						Volatiles pH <2	Metals pH <2	Cyanide pH > 12	Other ____	Remarks
FB030698-208B	3/6/98	1600	G	O	2			✓										Begin SDG 208-B
FB030948-208B	3/9/98	1800	G	O	2			✓										
TB 030948-208B	3/9/98	—	—	O	1			✓										
VMP-1 (1-3')	3/6/98	0650	G	S	2	✓	✓											
VMP-5 (5-7')	3/6/98	1500	G	S	2	✓	✓											
AMP-5 (1-3')	3/9/98	1520	G	S	2	✓	✓											END SDG 208-B

Sampler(s)
Kai Hansen

Cooler ID # 32

Is RFA sampling complete?
Yes No

Bottles Relinquished under Airbill No. 4287 4953 9751

Samples Relinquished under Airbill No. 8024953333

Temperature (corrected) ____ C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Kai Hansen	3-9-98	2000				Yes No
						Yes No
			Received for Laboratory by: Brenda Cregg	3/10/98	1030	Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

Cooler Dated
Seal intact
Cooler Temp 30 (29)

Revision No 1
Created September 23, 1997

WORK ORD. #: L9803172 Client: Compu Chem SAMPLE #: 1-6 PAGE: 1

SAMPLE #	TESTS	REASON	REMOVED BY (ADT)	REMOVED FROM	MOVED TO	RELIQ. BY	RET'D BY (ADT)	RET'D TO	REC'D BY	REASON
4-6	8260	Anal	REF 3/12/98 @ 1530	V-1	VOA	Big	ArS 3/23/98 945	Archive	Big	Archive
1-3	8260(w)	Anal	REF 3/12/98 @ 1545	V-1	VOA	Big	ArS 3/23/98 945	Archive	Big	Archive
4-6	RCT-S	Anal	DLN 3/23/98 (0945)	Voa	Wet	ArS				

* Removed a portion from samples in Voa and took to wet. DLN 3/23/98 (0945)

CompuChem
A Division of Liberty Analytical Corp.
501 Madison Avenue
C[illegible], NC 27513

EPA Region 5 Records Ctr.
350041

September 21, 1998

Mr. Ken Vogel
Leggette Brashears & Graham
1210 West County Road East
Suite 700
St. Paul, MN 55112

RFA 98-2[illegible]9 & 250

Dear Mr. Vogel:

We at CompuChem are pleased to provide our report for the analysis you requested. Data for the following samples are enclosed:

Client ID Number	CompuChem ID Number	Analysis Code	Case Number	Description of Work Requested
SP1-SB-1-4-6	910755	1317	33825. 24904	Corrosivity by pH
SP1-SB-2-4-5	910763	1254		Ignitability
SP1-SB-3-4-5	910764	1316		Reactive Cyanide
		1316		Reactive Sulfide

Thank you for selecting CompuChem Environmental for your sample analysis. If you have any questions concerning this report or the analytical methods employed, please contact your Sales Representative at 919-379-4100.

Sincerely,

Project Manager

ANALYTICAL REPORT OF DATA - CASE # 33825. 24904

SUBMITTED TO:
Mr. Ken Vogel
Leggette Brashears & Graham
1210 West County Road East
Suite 700
St. Paul, MN 55112

LABORATORY CHRONICLE - CORROSIVITY BY PH ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE ANALYSIS COMPLETED
1.	SP1-SB-1-4-6	910755	09/18/98	09/19/98
2.	SP1-SB-2-4-5	910763	09/18/98	09/19/98
3.	SP1-SB-3-4-5	910764	09/18/98	09/19/98

ANALYTICAL REPORT OF DATA - CASE # 33825. 24904

SUBMITTED TO:
Mr. Ken Vogel
Leggette Brashears & Graham
1210 West County Road East
Suite 700
St. Paul, MN 55112

LABORATORY CHRONICLE - IGNITABILITY ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE ANALYSIS COMPLETED
1.	SP1-SB-1-4-6	910755	09/18/98	09/21/98
2.	SP1-SB-2-4-5	910763	09/18/98	09/21/98
3.	SP1-SB-3-4-5	910764	09/18/98	09/21/98

ANALYTICAL REPORT OF DATA - CASE # 33825. 24904

SUBMITTED TO:
Mr. Ken Vogel
Leggette Brashears & Graham
1210 West County Road East
Suite 700
St. Paul, MN 55112

LABORATORY CHRONICLE - REACTIVE CYANIDE ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE EXTRACTION COMPLETED	DATE ANALYSIS COMPLETED
1.	SP1-SB-1-4-6	910755	09/18/98	09/18/98	09/18/98
2.	SP1-SB-2-4-5	910763	09/18/98	09/18/98	09/18/98
3.	SP1-SB-3-4-5	910764	09/18/98	09/18/98	09/18/98

ANALYTICAL REPORT OF DATA - CASE # 33825. 24904

SUBMITTED TO:
Mr. Ken Vogel
Leggette Brashears & Graham
1210 West County Road East
Suite 700
St. Paul, MN 55112

LABORATORY CHRONICLE - REACTIVE SULFIDE ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE EXTRACTION COMPLETED	DATE ANALYSIS COMPLETED
1.	SP1-SB-1-4-6	910755	09/18/98	09/18/98	09/18/98
2.	SP1-SB-2-4-5	910763	09/18/98	09/18/98	09/18/98
3.	SP1-SB-3-4-5	910764	09/18/98	09/18/98	09/18/98

CORROSIVITY BY PH ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	CONCENTRATION (units)	REPORTING LIMIT (units)
1.	SP1-SB-1-4-6	910755	7.49	0.000
2.	SP1-SB-2-4-5	910763	8.12	0.000
3.	SP1-SB-3-4-5	910764	8.23	0.000

BRL = BELOW REPORTING LIMIT
NWR = NOT WITHIN RANGE

Reviewed by/ID#: S. Burlem / 02326 Date: 9/21/98

IGNITABILITY ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	CONCENTRATION (F)	REPORTING LIMIT (F)
1.	SP1-SB-1-4-6	910755	NWR	140
2.	SP1-SB-2-4-5	910763	NWR	140
3.	SP1-SB-3-4-5	910764	NWR	140

BRL = BELOW REPORTING LIMIT
NWR = NOT WITHIN RANGE

Reviewed by/ID#: S. Bulem / 2326 Date: 9/21/98

REACTIVE CYANIDE ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	CONCENTRATION (mg/kg)	REPORTING LIMIT (mg/kg)
1.	SP1-SB-1-4-6	910755	BRL	125
2.	SP1-SB-2-4-5	910763	BRL	125
3.	SP1-SB-3-4-5	910764	BRL	125

BRL = BELOW REPORTING LIMIT
NWR = NOT WITHIN RANGE

Reviewed by/ID#: S. Bulem / 2326 Date: 9/21/98

REACTIVE SULFIDE ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	CONCENTRATION (mg/kg)	REPORTING LIMIT (mg/kg)
1.	SP1-SB-1-4-6	910755	BRL	125
2.	SP1-SB-2-4-5	910763	BRL	125
3.	SP1-SB-3-4-5	910764	BRL	125

BRL = BELOW REPORTING LIMIT
NWR = NOT WITHIN RANGE

Reviewed by/ID#: S. Bulem / 2326 Date: 9/21/98

CORROSIVITY BY PH ANALYSIS

QUALITY CONTROL REPORT

CASE: 33825. 24904
MATRIX: SOIL

Analyst:2349
Date Analyzed 09/19/98

BLANK SPIKE (BS) COMPUCHEM #: LCS

SPIKE ADDED (units)	BS CONC. (units)	BS % RECOVERY
9.070	9.038	100.0

ORIG. SAMPLE COMPUCHEM #: 910755
DUPLICATE(DUP.) COMPUCHEM #: 910760

SAMPLE CONC. (units)	DUP. CONC. (units)	RPD
7.490	7.509	0.0000

The reporting limit for Corrosivity by pH is 0 units

BRL = BELOW REPORTING LIMIT
RPD = RELATIVE PERCENT DIFFERENCE
NWR = NOT WITHIN RANGE

IGNITABILITY ANALYSIS

QUALITY CONTROL REPORT

CASE: 33825. 24904
MATRIX: SOIL

Analyst:2326
Date Analyzed 09/21/98

BLANK SPIKE (BS) COMPUCHEM #: 910758

SPIKE ADDED (F)	BS CONC. (F)
81 +\- 2	80.84

ORIG. SAMPLE COMPUCHEM #: 910755
DUPLICATE(DUP.) COMPUCHEM #: 910759

SAMPLE CONC. (F)	DUP. CONC. (F)	RPD
NWR	NWR	N/A

The reporting limit for Ignitability is 140 F

BRL = BELOW REPORTING LIMIT
RPD = RELATIVE PERCENT DIFFERENCE
NWR = NOT WITHIN RANGE

REACTIVE CYANIDE ANALYSIS

QUALITY CONTROL REPORT

CASE: 33825. 24904
MATRIX: SOIL

Analyst:2059
Date Analyzed 09/18/98

BLANK SPIKE (BS) COMPUCHEM #: 910756

SPIKE ADDED (mg/kg)	BS CONC. (mg/kg)	BS % RECOVERY
40.00	5.595	14.00

ORIG. SAMPLE COMPUCHEM #: 910755
MATRIX SPIKE (MS) COMPUCHEM #: 910755SS
DUPLICATE (DUP.) COMPUCHEM #: 910757

SPIKE ADDED (mg/kg)	SAMPLE CONC. (mg/kg)	MS CONC. (mg/kg)	MS % RECOVERY	DUP. CONC. (mg/kg)	RPD
40.00	BRL	11.99	30.00	BRL	0.0000

COMPUCHEM #	QC TYPE	AMOUNT DETECTED (mg/kg)
PBS	METHOD BLANK	BRL

The reporting limit for Reactive Cyanide is 125 mg/kg

BRL = BELOW REPORTING LIMIT
RPD = RELATIVE PERCENT DIFFERENCE
NWR = NOT WITHIN RANGE

REACTIVE SULFIDE ANALYSIS

QUALITY CONTROL REPORT

CASE: 33825. 24904
MATRIX: SOIL

Analyst:2059
Date Analyzed 09/18/98

BLANK SPIKE (BS) COMPUCHEM #: 910756

SPIKE ADDED (mg/kg)	BS CONC. (mg/kg)	BS % RECOVERY
250.0	404.8	161.9

ORIG. SAMPLE COMPUCHEM #: 910755
MATRIX SPIKE (MS) COMPUCHEM #: 910755SS
DUPLICATE(DUP.) COMPUCHEM #: 910757

SPIKE ADDED (mg/kg)	SAMPLE CONC. (mg/kg)	MS CONC. (mg/kg)	MS % RECOVERY	DUP. CONC. (mg/kg)	RPD
250.0	BRL	496.9	188.0	BRL	0.0000

COMPUCHEM #	QC TYPE	AMOUNT DETECTED (mg/kg)
PBS	METHOD BLANK	BRL

The reporting limit for Reactive Sulfide is 125 mg/kg

BRL = BELOW REPORTING LIMIT
RPD = RELATIVE PERCENT DIFFERENCE
NWR = NOT WITHIN RANGE

CompuChem Receiving Log

* Originally Rec'd 9/17/98. Addtl parameters Requested CW 9

Client: Chrysler/LBG
Order #: 33825
Project: Dayton Thermal
Quote #: 98-7053
Account #: 501112

Received on: 9-18-98* # of COC's: 1
Delivered by: Federal Express
Freight #: 8013094346 32
Subcontract Y / (N)
TAT: Verbal 48 hr. Hardcopy 10 day

PPS / (RFA) # 249 Page 1 of 1
Lab Instructions: Reac/Ign/Corr pH, * DRO — Dry wt from: 910246, 247, 2
Rec'd 9/17 — addtl parameters, will come from 2-8oz Rec'd 9/17. CW 9/18/98

	SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	pH
1	24904	6	SPI-SB-1-4-6	910755	2-8oz *	Reac/Ign/Corr pH DRO	1316, 1264, 1317, 1130	32, 34, 36, 38	9/15/98	SO	N/A
2	↓	7	SPI-SB-2-4-5	910763	↓	↓	↓	↓	↓	↓	↓
3	↓	8	SPI-SB-3-4-5	910764	↓	↓	↓	↓	↓	↓	↓
4					* 8oz jars	Rec'd 9/17 logged in w/ CCN's: 910246					
5								910247			
6								910248			
7			CW 9/18/98								
8											
9					No additional sample volume was sent. CW 9/18/98						
10											
11											
12											
13											
14						CW 9/18/98					
15											
16											
17											
18											
19											
20											

will add labels to these jars CW 9/18/98

Logged In By: Colleen Nelson
Order Entered By: Colleen Nelson
Cyanide samples checked for sulfide and chlorine Y / (NA)
Received in good condition (Y) / N
Holding Blank(s) Counter / Page ____ / ____ CCN's ____ / ____
Temperature(s) 3.7 °C

CHRYSLER CORPORATION

Chain-of-Custody

01529 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number 1-800-833-5097
Fax Number (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, Ohio
Site Code: SC001
RFA Number: YGQP98-249 & 250
Chrysler PM: Gary Stanczuk

Consultant: Leggette, Brashears & Graham Inc.
Address: 1210 W. Co. Rd. E.
St Paul, Mn. 55112
Consultant PM: Ken Vogel
Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request:
24 calendar hrs
48 calendar hrs
10 days
28 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Dat Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	SVOC ~~#1~~	PCB's ~~#1~~	Herb/Pest	RCRA Metals + CN	TPH 418.1	VOC's 8260	TCLP-SVOC/VOC/PCB	TCLP-Pest/Herb/TPH	TCLP-RCRA Metals + CN	Lab Use Only: Volatiles pH <2	Metals pH <2	Cyanide pH >12	Other	Remarks
Soil File #1 SB-1 4-6'	9/15/98	14:00	G	S	3	X	X	X	X	X	X								
Soil File #1 SB-2 4-5'	9/15/98	14:30	G	S	3	X	X	X	X	X	X								
Soil File # SB-3 4-5'	9/15/98	15:00	G	S	3	X	X	X	X	X	X								
Soil File #1 CP-1	9/15/98	15:10	C	S	3							X	X	X					*Extract & Hold*
Trip Blank T00001	9/15/98										X								

Per Gary Stanczuk, perform full analysis DE 9/17/98

Sampler(s): Dane G. Olsen
[illegible]
68

Bottles Reliquished under Airbill No. ~~801309434632~~
Samples Relinquished under Airbill No. 801309434632
Temperature (corrected) open & 3.7C DE 9/17/98 9:25 am

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Dane G. Olsen	9/16/98	10:00				Yes No
						Yes No
			Received for Laboratory by: Diane Ellmore	9/17/98	9:45am	Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Samples placed in storage ID 1 & 3 DE 9/17/98 9:45am

COMPUCHEM

a division of Liberty Analytical Corp.

Daylon Stockpile
RFA 918-249 X250
Cyanide

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33825

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 3 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Colleen Wilson

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel 919-379-4100 ■ Fax: 919-379-4050

COMPUCHEM
a division of Liberty Analytical Corp.

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
910246	SP1-SB-1-4-6	9/17/98
910247	SP1-SB-2-4-5	9/17/98
910248	SP1-SB-3-4-5	9/17/98

TOTAL NUMBER OF SAMPLES = 3

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825 SAS No.: _____ SDG No.:24901C

SOW No.: SW846__

EPA Sample No.	Lab Sample ID
_SP1-CP-1_____	_910251_____
_SP1-CP-1S____	_910257_____
_SP1-CP-1S____	_910256_____
_SP1-SB-1-4-6_	_910246_____
_SP1-CP-1D____	_910259_____
_SP1-SB-2-4-5_	_910247_____
_SP1-SB-3-4-5_	_910248_____

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: M.R. Cole for Name: Carol J. Sandell

Date: September 21, 1998 Title: Laboratory Manager

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

INORGANIC CASE SUMMARY NARRATIVE
CASE # 33825 SDG # 24901C
PROTOCOL #SW-846

The indicated Sample Delivery Group (SDG) consisting of four (4) soil samples was received into the laboratory management system (LIMS) on September 17, 1998 intact and in good condition with Chain of Custody (COC) records in order. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were analyzed for cyanide using analytical methods delineated in SW-846 (Third Edition)-Update III.

SAMPLE IDs:

The following customer IDs are associated with this SDG:

SP1-CP-1 SP1-SB-1-4-6 SP1-SB-2-4-5 SP1-SB-3-4-5

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, CCB) associated with this data were confirmed to be within SW-846 allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSS & PBS) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike, CCN = 910256 and sample matrix spike duplicate, CCN = 910257 (ID = SP1-CP-1S) were found to be inside SW-846 control limits for the requested analytes.

SW-846 control limits for matrix spike recoveries are set at 75% to 125% of the analyte quantity added unless original sample concentrations exceed the true values of these "spikes" by a factor of four or more; in this case effected analytes are not flagged even if recoveries fall outside percentage recovery control limits.

The sample matrix duplicate, CCN = 910259 (ID = SP1-CP-1D) was inside SW-846 control limits for the requested analytes.

SW-846 control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

This SDG package was processed using the Ward Scientific software. This software package has a seven character limitation on the Forms 13 and 14 -- any sample ID's which exceed seven characters are truncated from left to right on these forms.

Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Thomas R. Cole
Chemist II
September 21, 1998

Note: This report is paginated for reference and accountability.

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

CompuChem Environmental Corportation

DATA REPORTING QUALIFIERS FOR INORGANICS

On Form I, under the column labeled "C" for concentration qualifier and "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each analyte.

The C (concentration) qualifiers used are:

U: This flag indicates the analyte was analyzed for but not detected. This reported value was obtained from a reading that was less than the Instrument Detection Limit (IDL). The IDL will be adjusted to reflect any dilution and, for soils, the percent moisture.

B: This flag indicates the analyte was analyzed for and the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). This flag also indicates the analyte was not detected, but the result is greater than or equal to the IDL.

The Q qualifiers used are:

E: This flag indicates an estimated value. This flag is used:

1. when the serial dilution (a five fold dilution for CLP and a four fold dilution for SW-846 method 6010A) results are not within 10%. The analyte concentration must be sufficiently high (minimally a factor of 50X above the IDL in the original sample).
2. when the analytical spike recovery associated with the sample is below 40% after two successive dilutions by Graphite Furnace Atomic Absorption (GFAA).

M: This flag applies to GFAA analyses for concentrations greater than the Contract Required Detection Limit (CRDL). This flag is only used for GFAA if the analytical sample or analytical spike duplicate injection reading is not within 20% of the Relative Standard Deviation (RSD).

N: This flag indates the sample spike recovery is outside of control limits:

***:** This flag is used for duplicate analysis when the sample and the sample duplicate results are not within control limits.

S: This flag applies to GFAA analyses to indicate the reported value was determined by the Method of Standard Additions (MSA).

W: This flag applies to GFAA analyses when the post-digestion spike (analytical spike) is out of control limits (85% - 115%), while sample absorbance is less than 50% of "spike" absorbance ["spike" is defined as (absorbance or concentration of spike sample) minus (absorbance or concentration of the sample)].

+: This flag applies to GFAA analyses when the correlation coefficient for the MSA is less than 0.995 after two MSA analyses.

NOTE: Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

CHRYSLER CORPORATION

Chain-of-Custody

01529 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, Ohio
Site Code: SC001
RFA Number:
Chrysler PM: Gary Stanczuk

This is RFA # 3449 [illegible] DE 9/17/98

Consultant: Leggette, Brashears & Graham Inc.
Address: 1210 W. Co. Rd. E.
St Paul, Mn. 55112
Consultant PM: Ken Vogel
Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

Per Gary Stanczuk 48/72 hr. TAT DE 9/17/98

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	SVOC ~~#1~~	PCB's ~~#1~~	Herb/Pest	RCRA Metals + CN	TPH 418.1	VOC's 8260	TCLP-SVOC/VOC/PCB	TCLP-Pest/Herb/TPH	TCLP-RCRA Metals + CN	Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
Soil Pile #1 SB-1 4-6'	9/15/98	14:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 SB-2 4-5'	9/15/98	14:30	G	S	3	X	X	X	X	X	X								
Soil Pile # SB-3 4-5'	9/15/98	15:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 CP-1	9/15/98	15:10	C	S	3							X	X	X					* Extract & Hold *
Trip Blank T00001	9/15/98										X								

Per Gary Stanczuk, perform full analyses DE 9/17/98

Sampler(s)
Dane G. Olsen
[signature]

Cooler ID # 68

Is RFA sampling complete? Yes No

Bottles Reliquished under Airbill No. ~~801309434632~~

Samples Relinquished under Airbill No. 801309434632

Temperature (corrected) 3.7° DE 9/17/98 9:25 am

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Dane G. Olsen	9/16/98	10:00				Yes No
						Yes No
			Received for Laboratory by: Diane Ellmore	9/17/98	9:15 am	Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

complete per Gary Stanczuk DE 9/17/98

Samples placed in [illegible] DE 9/17/98

Revision No. 1

Compuchem Receiving Log

ent : Chrysler / LBG
der # 33825
oject : RFA 249
uote # 98-[illegible]
count # 50113

Received on 9/17/98 # of COC's 1
Delivered by Federal Express
Freight # 8013094[illegible]
Subcontract Y / N
TAT : Verbal 48/72 HR Hardcopy 10 day

PPS / RFA # [illegible] Page 1 of [illegible]
Lab Instructions : RCRA [illegible] + CN / TCL
list - req analyses [illegible] on all TCLP samples [illegible] analyzed as soils
Pick QC 9/17

SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	[illegible]
24901	1	SP1-SB-1-4-6	910[illegible]	1-4oz/2-8oz	RCRA [illegible]	4005, 1357, [illegible]	[illegible]	[illegible]/98	SO	NA
↓	2	SP1-SB-2-4-5	[illegible]	↓	↓	↓	↓	↓	↓	↓
↓	3	SP1-SB-3-4-5	9[illegible]248	↓	↓	↓	↓	↓	↓	↓
24902	4	SP1-[illegible]-1	910[illegible]-1	1-4oz/2-8oz	[illegible]	1139, 749, 1083, 4005, [illegible]	[illegible]	↓	↓	↓
24903	5	[illegible]	91[illegible]	4-40ml [illegible]	↓	1356	1	↓	WA	↓

Logged In By [illegible]

Cyanide samples checked for sulfide and chlorine Y / NA

Holding Blank(s) Counter / Page / CCN's

Order Entered By [illegible]

Received in good condition Y / N

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SP1-CP-1

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901C

Matrix (soil/water): SOIL_ Lab Sample ID: 910251

Level (low/med): LOW__ Date Received: 09/17/98

% Solids: _88.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
	Cyanide	0.57	U		AS

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:

Undecanted_Dry_Weights____Container:1.30g__Wet:6.39g__Dry:5.79g_____

Duplicate_(SP1-CP-1D)_____

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SP1-SB-1-4-6

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901C

Matrix (soil/water): SOIL_ Lab Sample ID: 910246

Level (low/med): LOW__ Date Received: 09/17/98

% Solids: _86.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
	Cyanide	0.57	U		AS

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:

Undecanted_Dry_Weights____Container:1.31g__Wet:6.88g__Dry:6.14g_____

Duplicate_(SP1-SB-1-4-6D)_____

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SP1-SB-2-4-5

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901C

Matrix (soil/water): SOIL_ Lab Sample ID: 910247

Level (low/med): LOW__ Date Received: 09/17/98

% Solids: _85.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
	Cyanide	0.57	U		AS

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:

Undecanted_Dry_Weights____Container:1.31g__Wet:6.32g__Dry:5.61g_____

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SP1-SB-3-4-5

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901C

Matrix (soil/water): SOIL_ Lab Sample ID: 910248

Level (low/med): LOW__ Date Received: 09/17/98

% Solids: _86.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
	Cyanide	0.58	U		AS

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:

Undecanted_Dry_Weights____Container:1.31g__Wet:6.88g__Dry:6.11g_____

U.S. EPA - CLP

3
BLANKS

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901C

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Cyanide	10.0	U	10.0	U	10.0	U	10.0	U	0.50	U	AS

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SP1-CP-1S

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901C

Matrix (soil/water): SOIL__ Level (low/med): LOW___

% Solids for Sample: _88.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Cyanide	75-125	6.2018		0.5669	U	5.67	109.4		AS

Comments:

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SP1-CP-1S

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901C

Matrix (soil/water): SOIL__ Level (low/med): LOW___

% Solids for Sample: _88.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Cyanide	75-125	5.5816		0.5669	U	5.67	98.4		AS

Comments:

FORM V (Part 1) - IN SW846

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901C

Solid LCS Source: EPA-LV_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Cyanide				5.6	6.1		4.3	6.9	108.9

CompuChem
A Division of Liberty Analytical Corp.
501 Madison Avenue
Cary, NC 27513

Dayton Stock pre
RCA 248-250
TPH

September 21, 1998

Mr. Ken Vogel
Leggette Brashears & Graham
1210 West County Road East
Suite 700
St. Paul, MN 55112

Dear Mr. Vogel:

We at CompuChem are pleased to provide our report for the analysis you requested. Data for the following samples are enclosed:

Client ID Number	CompuChem ID Number	Analysis Code	Case Number	Description of Work Requested
SP1-SB-1-4-6	910246	4005	33825. 24901	Total Petroleum Hydrocarbons in Soil
SP1-SB-2-4-5	910247			
SP1-SB-3-4-5	910248			
SP1-CP-1	910251			

Thank you for selecting CompuChem Environmental for your sample analysis.
If you have any questions concerning this report or the analytical methods employed, please contact your Sales Representative at 919-379-4100.

Sincerely,

Colleen Wilson
Project Manager

QUALITY ASSURANCE NOTICE

COMPUCHEM # 910270

CLIENT I.D. # SP1-SB-1-4-6

CASE / SDG 33825.2490)

The following qualification should be noted when reporting and/or interpreting data for the above noted sample. These data qualifiers are used when special circumstances exist in the sample preparation or sample matrix which were beyond the Laboratory's control.

[ ] no spike recovery data available due to severe matrix interferences.

[ ] no spike recovery data available due to a 1 : ____ dilution factor.

[ ] indigenous level of analyte in original sample exceeds spike added concentration by a factor of 4 or more making the spike recovery insignificant and therefore not reportable.

[✓] variations between duplicate or sample spikes or sample spikes duplicate have been attributed to the inhomogeneous nature of the soil matrix.

[ ] variations between duplicate or sample spikes or sample spikes duplicate have been attributed to the inhomogeneous nature of the water matrix.

[ ] additional data reviewer comments :

S. Bulem	2326	9/21/98
Reviewer's Signature	ID number	Date

ANALYTICAL REPORT OF DATA - CASE # 33825. 24901

SUBMITTED TO:
Mr. Ken Vogel
Leggette Brashears & Graham
1210 West County Road East
Suite 700
St. Paul, MN 55112

LABORATORY CHRONICLE - TOTAL PETROLEUM HYDROCARBONS IN SOIL ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE EXTRACTION COMPLETED	DATE ANALYSIS COMPLETED
1.	SP1-SB-1-4-6	910246	09/17/98	09/18/98	09/19/98
2.	SP1-SB-2-4-5	910247	09/17/98	09/18/98	09/19/98
3.	SP1-SB-3-4-5	910248	09/17/98	09/18/98	09/19/98
4.	SP1-CP-1	910251	09/17/98	09/18/98	09/19/98

TOTAL PETROLEUM HYDROCARBONS IN SOIL ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	CONCENTRATION (mg/kg)	REPORTING LIMIT (mg/kg)
1.	SP1-SB-1-4-6	910246	108	50.0
2.	SP1-SB-2-4-5	910247	93.2	50.0
3.	SP1-SB-3-4-5	910248	325	50.0
4.	SP1-CP-1	910251	120	50.0

BRL = BELOW REPORTING LIMIT
NWR = NOT WITHIN RANGE

Reviewed by/ID#: S. Bulem 12326 Date: 9/21/98

TOTAL PETROLEUM HYDROCARBONS IN SOIL ANALYSIS

QUALITY CONTROL REPORT

CASE: 33825. 24901
MATRIX: SOIL

Analyst:2349
Date Analyzed 09/19/98

BLANK SPIKE (BS) COMPUCHEM #: 910894

SPIKE ADDED (mg/kg)	BS CONC. (mg/kg)	BS % RECOVERY
250.0	277.6	111.0

ORIG. SAMPLE COMPUCHEM #: 910246
MATRIX SPIKE (MS) COMPUCHEM #: 910269
MATRIX SPIKE DUP. (MSD) COMPUCHEM #: 910270

SPIKE ADDED (mg/kg)	SAMPLE CONC. (mg/kg)	MS CONC. (mg/kg)	MS % RECOVERY	MSD CONC. (mg/kg)	MSD % RECOVERY	RPD
250.0	108.0	399.2	117.0	463.3	142.0	15.00

COMPUCHEM #	QC TYPE	AMOUNT DETECTED (mg/kg)
910893	METHOD BLANK	BRL

The reporting limit for Total Petroleum Hydrocarbons in Soil is 50 mg/kg

BRL = BELOW REPORTING LIMIT
RPD = RELATIVE PERCENT DIFFERENCE
NWR = NOT WITHIN RANGE

CompuChem Receiving Log

Client : Chrysler / LPG
Order # [illegible]
Project RFA 249
Quote # 98-[illegible]
Account # 5C[illegible]

Received on 9/12/98 # of COC's 1
Delivered by Federal Express
Freight # 8C 1309 4241 632
Subcontract Y / N
TAT : Verbal 48/72 HR Hardcopy 10 day

PPS / RFA # [illegible] Page 1 of 1
Lab Instructions : RCRA VOA + CN / TCL
List - req analyses / [illegible] on all TCLP samples [illegible] analyzed for [illegible] 9/17
Pick Up

	SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	[illegible]
1	24901	1	[illegible]	91[illegible]	1-4oz/2-8oz	RCRA [illegible]	4005, 1357, [illegible]	[illegible]	9/5/98	50	NA
2	↓	2	[illegible]	[illegible]	↓	↓	↓	↓	↓	↓	↓
3	↓	3	[illegible]	[illegible]	↓	↓	↓	↓	↓	↓	↓
4	24902	4	[illegible]	91[illegible]-1	1-4oz/2-8oz	[illegible]	1137, 149, [illegible]	[illegible]	↓	↓	↓
5	24903	5	[illegible]	91[illegible]	4-[illegible]	[illegible]	1356	1	↓	WA	↓
6											
7											
8											
9											
10											
11											
12											
13						9/17/98					
14					[illegible]						
15											
16											
17											
18											
19											
20											

Logged In By [illegible]
Order Entered By : [illegible]
Cyanide samples checked for sulfide and chlorine Y / NA
Received in good condition Y / N
Holding Blank(s) Counter / Page / CCN's / Temperature(s) [illegible] °C

CHRYSLER CORPORATION

Chain-of-Custody

01529 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, Ohio
Site Code: SC001
RFA Number:
Chrysler PM: Gary Stanczuk

Consultant: Leggette, Brashears & Graham Inc.
Address: 1210 W. Co. Rd. E.
St Paul, Mn. 55112
Consultant PM: Ken Vogel
Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

Per Gary Stanczuk 48/77 [illegible] TAT DE 9/17/98

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	SVOC ~~[illegible]~~	PCB's ~~[illegible]~~	Herb/Pest	RCRA Metals + CN	TPH 418.1	VOC's 8260	TCLP-SVOC/VOC/PCB	TCLP-Pest/Herb/TPH	TCLP-RCRA Metals + CN	Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
Soil Pile #1 SB-1 4-6'	9/15/98	14:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 SB-2 4-5'	9/15/98	14:30	G	S	3	X	X	X	X	X	X								
Soil Pile # SB-3 4-5'	9/15/98	15:00	G	S	3	X	X	X	X	X	X								*
Soil Pile #1 CP-1	9/15/98	15:10	C	S	3							X	X	X					Extract & Hold *
Trip Blank T00001	9/15/98										X								

Per Gary Stanczuk, perform full analyses DE 9/17/98

Sampler(s)
Jane G. Olsen
[illegible]

Cooler ID # 68

Is RFA sampling complete? Yes No

Bottles Reliquished under Airbill No. ~~801309434632~~

Samples Relinquished under Airbill No. 801309434632

Temperature (corrected) 3.7C open & DE 9/17/98 9:25 am

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Jane G. Olsen	9/16/98	10:00				Yes No
						Yes No
			Received for Laboratory by: Diane Ellmore	9/17/98	9:15 am	Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Complete per Gary Stanczuk DE 9/17/98

Samples placed in storage ID 1 & 3 DE 9/17/98 9:45 am

Revision No. 1

CompuChem Receiving Log

Client: Chrysler / LPG
Order #: 33X25
Project: PEH 249
Quote #: 98-[illegible]
Account #: 50113

Received on: 9/12/98 # of COC's: 1
Delivered by: Federal Express
Freight #: 8013094 24632
Subcontract Y / N:
TAT: Verbal 48/72 HR Hardcopy 10 day

PPS / RFA #: [illegible] Page 1 of 1
Lab Instructions: RCRA VOC + CN / TCLP
List reg analyte / TCLP list on all TCLP samples / ~~Each [illegible] analyzed as soils~~ 9/17
Pick QC

	SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	[illegible]
1	24901	1	[illegible]-1-4-6	91[illegible]	1-4oz/2-8oz	RCRA [illegible] CN/Rel VOC/SV/Pest PCB/Herb	4005, [illegible]	[illegible]	9/5/98	SO	NA
2	↓	2	[illegible]-4-5	[illegible]	↓	↓	↓	↓	↓	↓	↓
3	↓	3	[illegible]-4-5	[illegible]	↓	↓	↓	↓	↓	↓	↓
4	24902	4	[illegible]-1	91[illegible]-1	1-4oz/2-8oz	[illegible]	1137, 749, 1087, 4005, [illegible]	[illegible]	↓	↓	↓
5	24903	5	[illegible]1	91[illegible]1	4-40mL vials	[illegible]	1356	1	↓	WA	↓
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

Logged In By: [illegible]
Order Entered By: [illegible]
Cyanide samples checked for sulfide and chlorine Y / NA
Received in good condition Y / N

CHRYSLER CORPORATION

Chain-of-Custody

01529 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, Ohio
Site Code: SC001
RFA Number:
Chrysler PM: Gary Stanczuk

This is RFA # 349 per Ken Vogel DE 9/17/98

Consultant: Leggette, Brashears & Graham Inc.
Address: 1210 W. Co. Rd. E.
St Paul, Mn. 55112
Consultant PM: Ken Vogel
Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

Per Gary Stanczuk 9/17 TAT DE 9/17/98

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	SVOC ~~#1~~	PCB's ~~#1~~	Herb/Pest	RCRA Metals + CN	TPH 418.1	VOC's 8260	TCLP-SVOC/VOC/PCB	TCLP-Pest/Herb/TPH	TCLP-RCRA Metals + CN	Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
Soil Pile #1 SB-1 4-6'	9/15/98	14:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 SB-2 4-5'	9/15/98	14:30	G	S	3	X	X	X	X	X	X								
Soil Pile # SB-3 4-5'	9/15/98	15:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 CP-1	9/15/98	15:10	C	S	3							X	X	X					* Extract & Hold *
Trip Blank T00001	9/15/98										X								

Per Gary Stanczuk, perform full analysis DE 9/17/98

Sampler(s): Jane G. Olsen
[signature]

Cooler ID # 68

Is RFA sampling complete? Yes No

Bottles Reliquished under Airbill No. ~~801309434632~~

Samples Relinquished under Airbill No. 801309434632

Temperature (corrected) 3.7C open & DE 9/17/98 9:25 am

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Jane G. Olsen	9/16/98	10:00				Yes No
						Yes No
			Received for Laboratory by: Diane Ellmore	9/17/98	9:15 am	Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Complete per Gary Stanczuk DE 9/17/98

Samples placed in storage ID 1 & 3 DE 9/17/98 9:45 am

Revision No. 1

COMPUCHEM
a division of Liberty Analytical Corp.

RFA 98-279 & 98-280
diesel

22/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33825

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 3 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Cathy Dorer

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary NC 27513 ■ Tel: 919-379-4100 ■ Fax: 919-379-4050

COMPUCHEM
a division of Liberty Analytical Corp.

22/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
910755	SP1-SB-1-4-6	9/18/98
910763	SP1-SB-2-4-5	9/18/98
910764	SP1-SB-3-4-5	9/18/98

TOTAL NUMBER OF SAMPLES = 3

501 Madison Avenue ■ Cary N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

CompuChem
a division of Liberty Analytical Corp.
501 Madison Avenue
Cary, North Carolina 27513

CASE NARRATIVE

CASE: 33825
SDG: 24904

SAMPLE IDENTIFICATIONS: SP1-SB-1-4-6, SP1-SB-2-4-5, SP1-SB-3-4-5

The three (3) soil samples listed above were received intact, properly refrigerated, with proper chain-of-custody (COC) documentation, on September 17, 1998. The samples were prepared and analyzed for the extractable total petroleum hydrocarbon (TPH) fraction following SW846 Method 8015 protocol.

EXTRACTABLE TPH

Extraction and analysis holding time requirements were met for this sample. The target analyte extractable TPH, reported as diesel, was not found at a concentration above the reporting limit in any of these samples. The reporting limit of extractable TPH in a method blank is 50 mg/kg.

All of the surrogates met recovery and retention time criteria in the analyses of these samples and their associated quality control samples. The method blank met all quality control criteria. No extractable TPH was detected in the method blank.

SP1-SB-2-4-5 was used as the original to prepare the duplicate matrix spikes. The associated duplicate matrix spikes met all advisory accuracy and precision criteria. The associated Laboratory Control Sample (LCS) met all quality control criteria.

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 conditions listed above. Release of the data contained in the hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the signature below.

Stephanie W. Winfield 9.22.98
Stephanie W. Winfield
Technical Reviewer
September 22, 1998

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL) (or Reporting Limit) will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicates the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

S : This flag indicates that an analyte was detected by a single column GC analysis but the result was below the Reporting Limit. This flag is only used when clients request a second (confirmation) column analysis after detecting an analyte above the Reporting Limit in the initial, single column analysis. This flag alerts the data user that only an analyte was detected below the Reporting Limit and a second (confirmation) analysis was not performed.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

FORM 1
8015 ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-SB-1-4-6

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24904

Matrix: (soil/water) SOIL Lab Sample ID: 910755

Sample wt/vol: 20.0 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/18/98

Concentrated Extract Volume: 5000(ul) Date Analyzed: 09/21/98

Injection Volume: 4.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
9999-99-7	Diesel	57	U

FORM 1
8015 ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-SB-2-4-5

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24904

Matrix: (soil/water) SOIL Lab Sample ID: 910763

Sample wt/vol: 20.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/18/98

Concentrated Extract Volume: 5000(ul) Date Analyzed: 09/21/98

Injection Volume: 4.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
9999-99-7	Diesel	58	U

FORM 1
8015 ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-SB-3-4-5

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24904

Matrix: (soil/water) SOIL Lab Sample ID: 910764

Sample wt/vol: 20.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/18/98

Concentrated Extract Volume: 5000(ul) Date Analyzed: 09/21/98

Injection Volume: 4.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
9999-99-7	Diesel	58	U

FORM 1
8015 ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKLR

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24904

Matrix: (soil/water) SOIL Lab Sample ID: 910619

Sample wt/vol: 20.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/18/98

Concentrated Extract Volume: 5000(ul) Date Analyzed: 09/21/98

Injection Volume: 4.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
9999-99-7	Diesel	50	U

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKLR

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24904

Lab Sample ID: 910619 Lab File ID: _____

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 09/18/98

Date Analyzed (1): 09/21/98 Date Analyzed (2):

Time Analyzed (1): 1252 Time Analyzed (2):

Instrument ID (1): VARIAN45 Instrument ID (2):

GC Column (1): RTX-5 ID: 0.53(mm) GC Column (2): ID:

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PLCSLR	910620	09/21/98	
02	SP1-SB-1-4-6	910755	09/21/98	
03	SP1-SB-2-4-5	910763	09/21/98	
04	SP1-SB-3-4-5	910764	09/21/98	
05	SP1-SB-2-4-5	910761	09/22/98	
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PEST

FORM 2
SOIL 8015 SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24904

GC Column(1): RTX-5 ID: 0.53 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	S2 %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	PBLKLR	57						0
02	PLCSLR	82						0
03	SP1-SB-1-4-6	50						0
04	SP1-SB-2-4-5	59						0
05	SP1-SB-3-4-5	70						0
06	SP1-SB-2-4-5	85						0
07	SP1-SB-2-4-5	80						0
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS

S1 = o-terphenyl (40-120)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 3
SOIL 8015 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24904

Matrix Spike - Sample No.: SP1-SB-2-4-5

COMPOUND	SPIKE ADDED (mg/Kg	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC #	QC. LIMITS REC.
Diesel	290	0.0	300	103	50-150

COMPOUND	SPIKE ADDED (mg/Kg	MSD CONCENTRATION (mg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Diesel	290	290	100	3	25	50-150

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

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM 3
SOIL 8015 METHOD SPIKE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24904

COMPOUND	SPIKE ADDED (ug/Kg	CONCENTRATION (mg/Kg)	% REC #	QC. LIMITS REC.
Diesel	250	240	96	50-150

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

* Values outside of QC limits

COMMENTS: _____

COMPUCHEM

a division of Liberty Analytical Corp.

Dayton Stockpile
RFA 98-249 & 250
VOC's

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33825

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 3 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Colleen Wilson

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel 919 379-4100 ■ Fax 919-379-4050

COMPUCHEM
a division of Liberty Analytical Corp.

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
910246	SP1-SB-1-4-6	9/17/98
910247	SP1-SB-2-4-5	9/17/98
910248	SP1-SB-3-4-5	9/17/98

TOTAL NUMBER OF SAMPLES = 3

501 Madison Avenue ■ Cary, NC 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

Compuchem
A Division of Liberty Analytical
501 N. Madison Avenue
Cary, NC 27513

NARRATIVE
CASE:33825
SDG:24903
CONTRACT:501112

SAMPLE IDS:SP1-SB-1-4-6 SP1-SB-2-4-5 SP1-SB-3-4-5 T00001

The three (3) soil and one (1) water samples listed above were received intact, properly refrigerated, with proper chain of custody (COC) documentation on September 17, 1998. The samples were prepared and analyzed following S846 method 8260.

VOLATILES:
Analysis holding times were met for these samples. The samples contained methylene chloride, acetone, trichloroethene, tetrachloroethene and 2-butanone below the reporting limits.

No, Tentatively Identified Compound (TIC) data is supplied as requested by the client.

All of the system monitoring compounds met recovery criteria and the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blank met all quality control criteria and contained methylene chloride and acetone.

The Laboratory Control Sample (LCS) associated with this case met all QC criteria without exception.

Duplicate matrix spikes were generated from the original SP1-SB-1-4-6. The matrix spikes met all QC precision and accuracy criteria without exception.

Manual integration's were performed on one or more process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of this SDG.

I certified 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 listed above. Release of the data contained in this hard copy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Mark D. Bevan
Volatile Supervisor
September 21, 1998

GC and GC/MS Column and Trap Specifications Table

COLUMNS

Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
GC Laboratory				
Restek	RTX-1701	0.53	0.5	30
J & W	DB-608	0.53	0.83	30
Restek	CLPesticides	0.53	0.5	30
Restek	CLPesticides II	0.53	0.42	30
GC/MS Volatiles Laboratory				
J & W	DB-624	0.53	3.0	30/75
Supelco	SPB-624	0.53	3.0	75
GC/MS Semivolatiles Laboratory				
J & W	DB-5	0.32	1.0	30
Hewlett Packard	HP5-MS	0.25	0.25	30

TRAP

GC/MS Volatiles Laboratory	
	* 15 cm of 2,6-diphenylene oxide polymer (Tenax) * 1 cm of methyl silicone packing (OV-1 coating) * 8 cm of silica gel * 0.5 cm of glass wool at each end

CompuChem

a division of Liberty Analytical Corporation

CompuChem's Pagination Convention

As required by the current EPA CLP Statement of Work (SOW) (Document Number OLM03.0, plus revisions), data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add in an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

Form DC-2 presents an inventory of the contents of the CSF, including the page number locations for the indexed items. There are concurrent delivery requirements for the Sample Data Packages and the CSF. Because of this and the time required for the final technical review process, we have instituted a policy to expedite assembly of the CSF. Items 2-6 on the Organic Form DC-2 and items 2-26 on the Inorganic Form DC-2 contain those items which are part of the Sample Data Packages. Those items will be paginated in ascending order. However, while Sample Data Packages receive a final technical review, items 7-10 on the Organic Form DC-2 and items 27-32 on the Inorganic Form DC-2 will be assembled and paginated. The first page number for the first entry for item 7 on the Organic Form DC-2 and for item 27 on the Inorganic Form DC-2 will always begin with page number 10,000.

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These adjustments are performed by the data reviewer, GC/MS operator, or GC chemist. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration of each compound to demonstrate the accuracy of that process. Adjustments are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count as possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that the data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

With the introduction of the current EPA CLP SOW (Document Number OLM03.0, plus revisions) additional explanations for manual editing/integration are required. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC data packages.

Robert E. Meierer
Vice President

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL) (or Reporting Limit) will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicates the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

S : This flag indicates that an analyte was detected by a single column GC analysis but the result was below the Reporting Limit. This flag is only used when clients request a second (confirmation) column analysis after detecting an analyte above the Reporting Limit in the initial, single column analysis. This flag alerts the data user that only an analyte was detected below the Reporting Limit and a second (confirmation) analysis was not performed.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

CHRYSLER CORPORATION

Chain-of-Custody

01529 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, Ohio
Site Code: SC001
RFA Number:
Chrysler PM: Gary Stanczuk

Consultant: Leggette, Brashears & Graham Inc
Address: 1210 W. Co. Rd. E.
St Paul, Mn. 55112
Consultant PM: Ken Vogel
Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

Per Gary Stanczuk 48/77 [illegible] TAT DE 9/17/98

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	SVOC ~~[illegible]~~	PCB's ~~[illegible]~~	Herb/Pest	RCRA Metals + CN	TPH 418.1	VOC's 8260	TCLP-SVOC/VOC/PCB	TCLP-Pest/Herb/TPH	TCLP-RCRA Metals + CN	Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
Soil Pile #1 SB-1 4-6'	9/15/98	14:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 SB-2 4-5'	9/15/98	14:30	G	S	3	X	X	X	X	X	X								
Soil Pile # SB-3 4-5'	9/15/98	15:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 CP-1	9/15/98	15:10	C	S	3							X	X	X					* Extract & Hold *
Trip Blank T00001	9/15/98										X								

Per Gary Stanczuk perform full analysis DE 9/17/98

Sampler(s): Dane G. Olsen, [illegible]

Cooler ID # 68

Is RFA sampling complete? Yes No

Bottles Reliquished under Airbill No. ~~801309434632~~

Samples Relinquished under Airbill No. 801309434632

Temperature (corrected) 3.7C open & DE 9/17/98 9:25 am

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Dane G. Olsen	9/16/98	10:00				Yes No
						Yes No
			Received for Laboratory by: Diane Ellmore	9/17/98	9:15 am	Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Complete per Gary Stanczuk DE 9/17/98

Samples placed in storage ID 1 & 3 DE 9/17/98 9:45 am

Revision No. 1
Created: September 23, 199[illegible]

CompuChem Receiving Log

Client: Chrysler / LPG
Order #: [illegible]
Project: PRA 249
Quote #: 98-[illegible]
Account #: 5C11[illegible]

Received on: 9/12/98 # of COC's: 1
Delivered by: Federal Express
Freight #: 8C130943916[illegible]
Subcontract Y / N:
TAT: Verbal 48/72 HR Hardcopy 1 day

PPS / RFA #: [illegible] Page 1 of 1
Lab Instructions: RCRA VOC + CN / TCLP
list-req. analyses / TCLP VOC on all TCLP samples ~~[illegible]~~ 9/17
Pick QC

	SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	[illegible]
1	249901	1	[illegible]	910[illegible]	1-4oz/2-8oz	RCRA VOC/CN/TCLP VOC/Pest/PCB/Herb	4005, 1357, [illegible]	[illegible]	9/5/98	50	NA
2	↓	2	[illegible]	[illegible]	↓	↓	↓	↓	↓	↓	↓
3	↓	3	[illegible]	[illegible]	↓	↓	↓	↓	↓	↓	↓
4	249902	4	[illegible]	91[illegible]-1	1-4oz/2-8oz	[illegible]	1139, 749, 1083, 4005, [illegible]	[illegible]	↓	↓	↓
5	249903	5	[illegible]	91625[illegible]	4-40mL vials	[illegible]	1356	1	↓	WA	↓
6											
7											
8											
9											
10											
11											
12											
13						9/17/98					
14					[illegible]						
15											
16											
17											
18											
19											
20											

Logged In By: [illegible]
Order Entered By: [illegible]
Cyanide samples checked for sulfide and chlorine Y / NA
Received in good condition Y / N
Holding Blank(s) Counter / Page / CCN's / Temperature(s) [illegible] °C

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-1-4-6

Project: RFA249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910246

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH010246A57.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: not dec. 13 Date Analyzed: 09/21/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	11		U
75-01-4	Vinyl Chloride	11		U
75-00-3	Chloroethane	11		U
75-09-2	Methylene Chloride	11	8	JB
75-35-4	1,1-Dichloroethene	11		U
75-34-3	1,1-Dichloroethane	11		U
67-66-3	Chloroform	11		U
107-06-2	1,2-Dichloroethane	11		U
71-55-6	1,1,1-Trichloroethane	11		U
56-23-5	Carbon Tetrachloride	11		U
75-27-4	Bromodichloromethane	11		U
10061-01-5	cis-1,3-Dichloropropene	11		U
79-01-6	Trichloroethene	11	5	J
124-48-1	Dibromochloromethane	11		U
79-00-5	1,1,2-Trichloroethane	11		U
71-43-2	Benzene	11		U
10061-02-6	trans-1,3-Dichloropropene	11		U
75-25-2	Bromoform	11		U
127-18-4	Tetrachloroethene	11	1	J
79-34-5	1,1,2,2-Tetrachloroethane	11		U
108-88-3	Toluene	11		U
108-90-7	Chlorobenzene	11		U
100-41-4	Ethylbenzene	11		U
100-42-5	Styrene	11		U
78-87-5	1,2-Dichloropropane	11		U
74-87-3	Chloromethane	11		U
67-64-1	Acetone	11	3	JB
108-10-1	4-Methyl-2-pentanone	11		U
78-93-3	2-butanone	11		U
540-59-0	1,2-Dichloroethene (total)	23		U
1330-20-7	Xylene (total)	11		U
591-78-6	2-Hexanone	11		U
75-15-0	Carbon Disulfide	11		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-1-4-6

Project: RFA249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910249

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH010249A57.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: not dec. 13 Date Analyzed: 09/21/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	11	66	
75-01-4	Vinyl Chloride	11	61	
75-00-3	Chloroethane	11	72	
75-09-2	Methylene Chloride	11	65	B
75-35-4	1,1-Dichloroethene	11	65	
75-34-3	1,1-Dichloroethane	11	68	
67-66-3	Chloroform	11	66	
107-06-2	1,2-Dichloroethane	11	56	
71-55-6	1,1,1-Trichloroethane	11	70	
56-23-5	Carbon Tetrachloride	11	71	
75-27-4	Bromodichloromethane	11	56	
10061-01-5	cis-1,3-Dichloropropene	11	52	
79-01-6	Trichloroethene	11	62	
124-48-1	Dibromochloromethane	11	54	
79-00-5	1,1,2-Trichloroethane	11	51	
71-43-2	Benzene	11	67	
10061-02-6	trans-1,3-Dichloropropene	11	50	
75-25-2	Bromoform	11	53	
127-18-4	Tetrachloroethene	11	62	
79-34-5	1,1,2,2-Tetrachloroethane	11	47	
108-88-3	Toluene	11	58	
108-90-7	Chlorobenzene	11	57	
100-41-4	Ethylbenzene	11	60	
100-42-5	Styrene	11	59	
78-87-5	1,2-Dichloropropane	11	56	
74-87-3	Chloromethane	11	60	
67-64-1	Acetone	11	61	B
108-10-1	4-Methyl-2-pentanone	11	46	
78-93-3	2-butanone	11	56	
540-59-0	1,2-Dichloroethene (total)	23	130	
591-78-6	2-Hexanone	11	46	
1330-20-7	Xylene (total)	11	190	
75-15-0	Carbon Disulfide	11	64	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-1-4-6

Project: RFA249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910250

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH010250A57.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: not dec. 13 Date Analyzed: 09/21/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	11	71	
75-01-4	Vinyl Chloride	11	67	
75-00-3	Chloroethane	11	71	
75-09-2	Methylene Chloride	11	63	B
75-35-4	1,1-Dichloroethene	11	64	
75-34-3	1,1-Dichloroethane	11	65	
67-66-3	Chloroform	11	64	
107-06-2	1,2-Dichloroethane	11	58	
71-55-6	1,1,1-Trichloroethane	11	66	
56-23-5	Carbon Tetrachloride	11	67	
75-27-4	Bromodichloromethane	11	57	
10061-01-5	cis-1,3-Dichloropropene	11	55	
79-01-6	Trichloroethene	11	68	
124-48-1	Dibromochloromethane	11	56	
79-00-5	1,1,2-Trichloroethane	11	54	
71-43-2	Benzene	11	64	
10061-02-6	trans-1,3-Dichloropropene	11	54	
75-25-2	Bromoform	11	55	
127-18-4	Tetrachloroethene	11	61	
79-34-5	1,1,2,2-Tetrachloroethane	11	51	
108-88-3	Toluene	11	59	
108-90-7	Chlorobenzene	11	58	
100-41-4	Ethylbenzene	11	59	
100-42-5	Styrene	11	59	
78-87-5	1,2-Dichloropropane	11	57	
74-87-3	Chloromethane	11	66	
67-64-1	Acetone	11	62	B
108-10-1	4-Methyl-2-pentanone	11	50	
78-93-3	2-butanone	11	52	
540-59-0	1,2-Dichloroethene (total)	23	130	
591-78-6	2-Hexanone	11	49	
1330-20-7	Xylene (total)	11	190	
75-15-0	Carbon Disulfide	11	61	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-2-4-5

Project: RFA249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910247

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH010247A57.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: not dec. 14 Date Analyzed: 09/21/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	12		U
75-01-4	Vinyl Chloride	12		U
75-00-3	Chloroethane	12		U
75-09-2	Methylene Chloride	12	9	JB
75-35-4	1,1-Dichloroethene	12		U
75-34-3	1,1-Dichloroethane	12		U
67-66-3	Chloroform	12		U
107-06-2	1,2-Dichloroethane	12		U
71-55-6	1,1,1-Trichloroethane	12		U
56-23-5	Carbon Tetrachloride	12		U
75-27-4	Bromodichloromethane	12		U
10061-01-5	cis-1,3-Dichloropropene	12		U
79-01-6	Trichloroethene	12	1	J
124-48-1	Dibromochloromethane	12		U
79-00-5	1,1,2-Trichloroethane	12		U
71-43-2	Benzene	12		U
10061-02-6	trans-1,3-Dichloropropene	12		U
75-25-2	Bromoform	12		U
127-18-4	Tetrachloroethene	12		U
79-34-5	1,1,2,2-Tetrachloroethane	12		U
108-88-3	Toluene	12		U
108-90-7	Chlorobenzene	12		U
100-41-4	Ethylbenzene	12		U
100-42-5	Styrene	12		U
78-87-5	1,2-Dichloropropane	12		U
74-87-3	Chloromethane	12		U
67-64-1	Acetone	12	2	JB
108-10-1	4-Methyl-2-pentanone	12		U
78-93-3	2-butanone	12		U
540-59-0	1,2-Dichloroethene (total)	23	4	J
1330-20-7	Xylene (total)	12		U
591-78-6	2-Hexanone	12		U
75-15-0	Carbon Disulfide	12		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-3-4-5

Project: RFA249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910248

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH010248A57.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: not dec. 14 Date Analyzed: 09/21/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	12		U
75-01-4	Vinyl Chloride	12		U
75-00-3	Chloroethane	12		U
75-09-2	Methylene Chloride	12	9	JB
75-35-4	1,1-Dichloroethene	12		U
75-34-3	1,1-Dichloroethane	12	1	J
67-66-3	Chloroform	12		U
107-06-2	1,2-Dichloroethane	12		U
71-55-6	1,1,1-Trichloroethane	12		U
56-23-5	Carbon Tetrachloride	12		U
75-27-4	Bromodichloromethane	12		U
10061-01-5	cis-1,3-Dichloropropene	12		U
79-01-6	Trichloroethene	12	10	J
124-48-1	Dibromochloromethane	12		U
79-00-5	1,1,2-Trichloroethane	12		U
71-43-2	Benzene	12		U
10061-02-6	trans-1,3-Dichloropropene	12		U
75-25-2	Bromoform	12		U
127-18-4	Tetrachloroethene	12	1	J
79-34-5	1,1,2,2-Tetrachloroethane	12		U
108-88-3	Toluene	12		U
108-90-7	Chlorobenzene	12		U
100-41-4	Ethylbenzene	12		U
100-42-5	Styrene	12		U
78-87-5	1,2-Dichloropropane	12		U
74-87-3	Chloromethane	12		U
67-64-1	Acetone	12	4	JB
108-10-1	4-Methyl-2-pentanone	12		U
78-93-3	2-butanone	12		U
540-59-0	1,2-Dichloroethene (total)	23	3	J
1330-20-7	Xylene (total)	12		U
591-78-6	2-Hexanone	12		U
75-15-0	Carbon Disulfide	12		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

T00001

Project: RFA249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910252

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GR010252A57.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: not dec. 0 Date Analyzed: 09/21/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	10		U
75-01-4	Vinyl Chloride	10		U
75-00-3	Chloroethane	10		U
75-09-2	Methylene Chloride	10	10	B
75-35-4	1,1-Dichloroethene	10		U
75-34-3	1,1-Dichloroethane	10		U
67-66-3	Chloroform	10		U
107-06-2	1,2-Dichloroethane	10		U
71-55-6	1,1,1-Trichloroethane	10		U
56-23-5	Carbon Tetrachloride	10		U
75-27-4	Bromodichloromethane	10		U
10061-01-5	cis-1,3-Dichloropropene	10		U
79-01-6	Trichloroethene	10		U
124-48-1	Dibromochloromethane	10		U
79-00-5	1,1,2-Trichloroethane	10		U
71-43-2	Benzene	10		U
10061-02-6	trans-1,3-Dichloropropene	10		U
75-25-2	Bromoform	10		U
127-18-4	Tetrachloroethene	10		U
79-34-5	1,1,2,2-Tetrachloroethane	10		U
108-88-3	Toluene	10		U
108-90-7	Chlorobenzene	10		U
100-41-4	Ethylbenzene	10		U
100-42-5	Styrene	10		U
78-87-5	1,2-Dichloropropane	10		U
74-87-3	Chloromethane	10		U
67-64-1	Acetone	10	2	JB
108-10-1	4-Methyl-2-pentanone	10		U
78-93-3	2-butanone	10		U
540-59-0	1,2-Dichloroethene (total)	20		U
1330-20-7	Xylene (total)	10		U
591-78-6	2-Hexanone	10		U
75-15-0	Carbon Disulfide	10		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VLCS11

Project: RFA249 Date Sampled: _____

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910319

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH010319A57.D

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

% Moisture: not dec. _____ Date Analyzed: 09/21/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	10	57	
75-01-4	Vinyl Chloride	10	56	
75-00-3	Chloroethane	10	61	
75-09-2	Methylene Chloride	10	55	B
75-35-4	1,1-Dichloroethene	10	55	
75-34-3	1,1-Dichloroethane	10	57	
67-66-3	Chloroform	10	57	
107-06-2	1,2-Dichloroethane	10	47	
71-55-6	1,1,1-Trichloroethane	10	59	
56-23-5	Carbon Tetrachloride	10	62	
75-27-4	Bromodichloromethane	10	47	
10061-01-5	cis-1,3-Dichloropropene	10	46	
79-01-6	Trichloroethene	10	50	
124-48-1	Dibromochloromethane	10	46	
79-00-5	1,1,2-Trichloroethane	10	43	
71-43-2	Benzene	10	58	
10061-02-6	trans-1,3-Dichloropropene	10	44	
75-25-2	Bromoform	10	46	
127-18-4	Tetrachloroethene	10	52	
79-34-5	1,1,2,2-Tetrachloroethane	10	41	
108-88-3	Toluene	10	51	
108-90-7	Chlorobenzene	10	49	
100-41-4	Ethylbenzene	10	52	
100-42-5	Styrene	10	53	
78-87-5	1,2-Dichloropropane	10	48	
74-87-3	Chloromethane	10	53	
67-64-1	Acetone	10	51	B
108-10-1	4-Methyl-2-pentanone	10	43	
78-93-3	2-butanone	10	44	
540-59-0	1,2-Dichloroethene (total)	20	110	
591-78-6	2-Hexanone	10	42	
1330-20-7	Xylene (total)	10	170	
75-15-0	Carbon Disulfide	10	56	

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKN5

Project: RFA249 Date Sampled: _____

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910316

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH010316A57.D

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

% Moisture: not dec. _____ Date Analyzed: 09/21/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	10		U
75-01-4	Vinyl Chloride	10		U
75-00-3	Chloroethane	10		U
75-09-2	Methylene Chloride	10	9	J
75-35-4	1,1-Dichloroethene	10		U
75-34-3	1,1-Dichloroethane	10		U
67-66-3	Chloroform	10		U
107-06-2	1,2-Dichloroethane	10		U
71-55-6	1,1,1-Trichloroethane	10		U
56-23-5	Carbon Tetrachloride	10		U
75-27-4	Bromodichloromethane	10		U
10061-01-5	cis-1,3-Dichloropropene	10		U
79-01-6	Trichloroethene	10		U
124-48-1	Dibromochloromethane	10		U
79-00-5	1,1,2-Trichloroethane	10		U
71-43-2	Benzene	10		U
10061-02-6	trans-1,3-Dichloropropene	10		U
75-25-2	Bromoform	10		U
127-18-4	Tetrachloroethene	10		U
79-34-5	1,1,2,2-Tetrachloroethane	10		U
108-88-3	Toluene	10		U
108-90-7	Chlorobenzene	10		U
100-41-4	Ethylbenzene	10		U
100-42-5	Styrene	10		U
78-87-5	1,2-Dichloropropane	10		U
74-87-3	Chloromethane	10		U
67-64-1	Acetone	10	2	J
108-10-1	4-Methyl-2-pentanone	10		U
78-93-3	2-butanone	10		U
540-59-0	1,2-Dichloroethene (total)	20		U
1330-20-7	Xylene (total)	10		U
591-78-6	2-Hexanone	10		U
75-15-0	Carbon Disulfide	10		U

FORM I VOA

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKN5

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Lab File ID: GH010316A57.D Lab Sample ID: 910316

Date Analyzed: 09/21/98 Time Analyzed: 0854

GC Column:DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: F50057

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS11	910319	GH010319A57.D	0941
02	SP1-SB-1-4-6	910246	GH010246A57.D	1032
03	SP1-SB-2-4-5	910247	GH010247A57.D	1117
04	SP1-SB-3-4-5	910248	GH010248A57.D	1152
05	SP1-SB-1-4-6	910249	GH010249A57.D	1301
06	SP1-SB-1-4-6	910250	GH010250A57.D	1342
07	T00001	910252	GR010252A57.D	1420
08				
09				
10				
11				
12				
13				
14				
15				
16				
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21				
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28				
29				
30				

COMMENTS:

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Level: (low/med) LOW

	SAMPLE NO.	SMC1 (DBF) #	SMC2 (TOL) #	SMC3 (BFB) #	OTHER	TOT OUT
01	SP1-SB-1-4-6	107	99	93		0
02	SP1-SB-1-4-6	115	100	102		0
03	SP1-SB-1-4-6	113	100	100		0
04	SP1-SB-2-4-5	112	101	94		0
05	SP1-SB-3-4-5	108	98	90		0
06	T00001	111	100	99		0
07	VBLKN5	110	100	97		0
08	VLCS11	114	101	109		0
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

			QC LIMITS
SMC1	(DBF)	= Dibromofluoromethane	(80-120)
SMC2	(TOL)	= Toluene-d8	(81-117)
SMC3	(BFB)	= Bromofluorobenzene	(74-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix Spike - Sample No.: SP1-SB-1-4-6 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Bromomethane	57.47	0.000	66.42	116	50-150
Vinyl Chloride	57.47	0.000	61.12	106	50-150
Chloroethane	57.47	0.000	72.43	126	50-150
Methylene Chloride	57.47	8.31	65.21	99	50-150
1,1-Dichloroethene	57.47	0.000	64.81	113	50-150
1,1-Dichloroethane	57.47	0.000	68.22	119	50-150
Chloroform	57.47	0.000	65.74	114	50-150
1,2-Dichloroethane	57.47	0.000	55.92	97	50-150
1,1,1-Trichloroethane	57.47	0.000	69.60	121	50-150
Carbon Tetrachloride	57.47	0.000	71.41	124	50-150
Bromodichloromethane	57.47	0.000	55.51	96	50-150
cis-1,3-Dichloropropene	57.47	0.000	52.40	91	50-150
Trichloroethene	57.47	4.95	61.79	99	50-150
Dibromochloromethane	57.47	0.000	53.96	94	50-150
1,1,2-Trichloroethane	57.47	0.000	51.11	89	50-150
Benzene	57.47	0.000	67.18	117	50-150
trans-1,3-Dichloroprope	57.47	0.000	50.26	87	50-150
Bromoform	57.47	0.000	52.71	92	50-150
Tetrachloroethene	57.47	1.04	61.50	105	50-150
1,1,2,2-Tetrachloroetha	57.47	0.000	47.16	82	50-150
Toluene	57.47	0.000	58.06	101	50-150
Chlorobenzene	57.47	0.000	56.73	99	50-150
Ethylbenzene	57.47	0.000	59.72	104	50-150
Styrene	57.47	0.000	58.59	102	50-150
1,2-Dichloropropane	57.47	0.000	56.20	98	50-150
Chloromethane	57.47	0.000	59.63	104	50-150
Acetone	57.47	2.91	60.77	101	50-150
4-Methyl-2-pentanone	57.47	0.000	45.72	80	50-150
2-butanone	57.47	0.000	55.66	97	50-150
1,2-Dichloroethene (tot	114.9	0.000	133.9	116	50-150

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix Spike - Sample No.: SP1-SB-1-4-6 Level(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
2-Hexanone	57.47	0.000	45.94	80	50-150
Xylene (total)	172.4	0.000	193.6	112	50-150
Carbon Disulfide	57.47	0.000	63.50	110	50-150

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix Spike - Sample No.: SP1-SB-1-4-6 Level(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	57.47	70.59	123	6	40	50-150
Vinyl Chloride	57.47	67.48	117	10	40	50-150
Chloroethane	57.47	71.41	124	2	40	50-150
Methylene Chloride	57.47	63.39	96	3	40	50-150
1,1-Dichloroethene	57.47	64.36	112	1	40	50-150
1,1-Dichloroethane	57.47	65.35	114	4	40	50-150
Chloroform	57.47	64.36	112	2	40	50-150
1,2-Dichloroethane	57.47	57.74	100	3	40	50-150
1,1,1-Trichloroethane	57.47	65.80	114	6	40	50-150
Carbon Tetrachloride	57.47	66.84	116	7	40	50-150
Bromodichloromethane	57.47	57.40	100	4	40	50-150
cis-1,3-Dichloropropene	57.47	54.57	95	4	40	50-150
Trichloroethene	57.47	68.10	110	10	40	50-150
Dibromochloromethane	57.47	56.13	98	4	40	50-150
1,1,2-Trichloroethane	57.47	53.96	94	5	40	50-150
Benzene	57.47	64.20	112	4	40	50-150
trans-1,3-Dichloroprope	57.47	53.74	94	8	40	50-150
Bromoform	57.47	54.63	95	3	40	50-150
Tetrachloroethene	57.47	60.70	104	1	40	50-150
1,1,2,2-Tetrachloroetha	57.47	51.45	90	9	40	50-150
Toluene	57.47	58.51	102	1	40	50-150
Chlorobenzene	57.47	57.70	100	1	40	50-150
Ethylbenzene	57.47	58.84	102	2	40	50-150
Styrene	57.47	58.69	102	0	40	50-150
1,2-Dichloropropane	57.47	57.44	100	2	40	50-150
Chloromethane	57.47	65.58	114	9	40	50-150
Acetone	57.47	62.42	104	3	40	50-150
4-Methyl-2-pentanone	57.47	49.79	87	8	40	50-150
2-butanone	57.47	51.60	90	7	40	50-150
1,2-Dichloroethene (tot	114.9	127.7	111	4	40	50-150

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix Spike - Sample No.: SP1-SB-1-4-6 Level(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
2-Hexanone	57.47	49.40	86	7	40	50-150
Xylene (total)	172.4	191.9	111	1	40	50-150
Carbon Disulfide	57.47	60.53	105	5	40	50-150

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

* Values outside of QC limits

RPD: 0 out of 33 outside limits
Spike Recovery: 0 out of 66 outside limits

COMMENTS:

3B

SOIL VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS11

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Lab Sample ID: 910319 LCS Lot No.: SE112

Lab File ID: GH010319A57.D Date Analyzed: 09/21/98

Purge Volume: 0.0 (mL) Dilution Factor: 1.0

LCS Aliquot: 10.0 (uL)

COMPOUND	AMOUNT ADDED (ug/Kg)	AMOUNT RECOVERED (ug/Kg)	%REC #	QC LIMITS
1,1,1-Trichloroethane	50.00	59.47	119	50-150
1,1,2-Trichloroethane	50.00	43.26	86	50-150
1,2-Dichloroethane	50.00	46.70	93	50-150
2-Hexanone	50.00	42.15	84	50-150
2-butanone	50.00	43.60	87	50-150
4-Methyl-2-pentanone	50.00	42.88	86	50-150
Acetone	50.00	50.91	102	50-150
Benzene	50.00	57.68	115	50-150
Bromodichloromethane	50.00	47.49	95	50-150
Bromoform	50.00	45.92	92	50-150
Bromomethane	50.00	57.16	114	50-150
Carbon Disulfide	50.00	56.16	112	50-150
Carbon Tetrachloride	50.00	61.65	123	50-150
Chloroethane	50.00	60.90	122	50-150
Dibromochloromethane	50.00	45.72	91	50-150
Methylene Chloride	50.00	54.68	109	50-150
Styrene	50.00	53.01	106	50-150
Tetrachloroethene	50.00	51.66	103	50-150
Trichloroethene	50.00	50.26	100	50-150
cis-1,3-Dichloropropene	50.00	46.11	92	50-150
trans-1,3-Dichloropropene	50.00	44.41	89	50-150
1,2-Dichloroethene (total)	100.0	112.3	112	50-150
Xylene (total)	150.0	171.3	114	50-150
1,1,2,2-Tetrachloroethane	50.00	40.87	82	50-150
1,1-Dichloroethane	50.00	56.68	113	50-150
1,1-Dichloroethene	50.00	55.25	110	50-150
1,2-Dichloropropane	50.00	47.75	96	50-150
Chlorobenzene	50.00	49.43	99	50-150
Chloroform	50.00	56.75	114	50-150
Chloromethane	50.00	52.99	106	50-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

3B

SOIL VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS11

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Lab Sample ID: 910319 LCS Lot No.: SE112

Lab File ID: GH010319A57.D Date Analyzed: 09/21/98

Purge Volume: 0.0 (mL) Dilution Factor: 1.0

LCS Aliquot: 10.0 (uL)

COMPOUND	AMOUNT ADDED (ug/Kg)	AMOUNT RECOVERED (ug/Kg)	%REC #	QC LIMITS
Ethylbenzene	50.00	51.70	103	50-150
Toluene	50.00	50.90	102	50-150
Vinyl Chloride	50.00	55.61	111	50-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 33 total.

COMMENTS:

COMPUCHEM

a division of Liberty Analytical Corp.

Dayton Street Fire
REA-98-249 & 250
SVOCs

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33825

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 3 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Colleen Wilson

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel 919-379-1100 ■ Fax 919-379-1050

COMPUCHEM

a division of Liberty Analytical Corp.

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
910246	SP1-SB-1-4-6	9/17/98
910247	SP1-SB-2-4-5	9/17/98
910248	SP1-SB-3-4-5	9/17/98

TOTAL NUMBER OF SAMPLES = 3

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

COMPUCHEM
A division of Liberty Analytical Corporation
501 MADISON AVE.
CARY, NC 27513
(919) 379-4100

SDG NARRATIVE

CASE #33825
SDG #24901
PROTOCOL : SW-846
METHOD : 8270

SAMPLES: SP1-SB-1-4-6, SP1-SB-2-4-5, SP1-SB-3-4-5

Attached are pertinent analytical data dealing with the analyses of three (3) soil samples associated with Case #33825, SDG #24901. The samples were received intact on September 17, 1998 in properly sealed shipping containers with the corresponding chains-of-custody. The samples were logged into the CompuChem Laboratory Management system and scheduled for the analyses of the semivolatile fractions by Method 8270.

SEMIVOLATILE
The semivolatile fractions were extracted and analyzed within the required holding time. The percent moisture values for the samples ranged from 13% to 14%. Three target analytes were detected with concentrations above the reporting limits in sample SP1-SB-1-4-6. These analytes were fluoranthene, pyrene and benzo(b)fluoranthene.

QC SUMMARY
The surrogates met recovery criteria for the semivolatile samples. The internal standards met area responses and retention time criteria.

The duplicate matrix spikes met accuracy and precision criteria for the spike compounds, with one exception. The recovery of bis(2-ethylhexyl)phthalate failed acceptance criteria in the MS. The relative percent difference value for bis(2-ethylhexyl)phthalate also failed acceptance criteria in the comparison of the duplicate matrix spikes. The Laboratory Control Sample (LCS) met accuracy criteria for all of the spike compounds.

The associated blanks, Initial Calibrations and Continuing Calibrations met Quality Control criteria.

Release of the data contained in the hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature:

Patricia B. Hopkins
Final Technical Reviewer
21 September 1998

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL) (or Reporting Limit) will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicates the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

C : **This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)**

DATA REPORTING QUALIFIERS (continued)

B This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

S : This flag indicates that an analyte was detected by a single column GC analysis but the result was below the Reporting Limit. This flag is only used when clients request a second (confirmation) column analysis after detecting an analyte above the Reporting Limit in the initial, single column analysis. This flag alerts the data user that only an analyte was detected below the Reporting Limit and a second (confirmation) analysis was not performed.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

Revision 4 (8-19-98)

CHRYSLER CORPORATION

Chain-of-Custody

01529 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, Ohio
Site Code: SC001
RFA Number:
Chrysler PM: Gary Stanczuk

Consultant: Leggette, Brashears & Graham Inc.
Address: 1210 W. Co. Rd. E.
St Paul, Mn. 55112
Consultant PM: Ken Vogel
Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

Per Gary Stanczuk 9/17/98 TAT

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	SVOC ~~[illegible]~~	PCB's ~~[illegible]~~	Herb/Pest	RCRA Metals + CN	TPH 418.1	VOC's 8260	TCLP-SVOC/VOC/PCB	TCLP-Pest/Herb/TPH	TCLP-RCRA Metals + CN	Lab Use Only: Volatiles pH <2	Metals pH <2	Cyanide pH >12	Other	Remarks
Soil Pile #1 SB-1 4-6'	9/15/98	14:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 SB-2 4-5'	9/15/98	14:30	G	S	3	X	X	X	X	X	X								
Soil Pile # SB-3 4-5'	9/15/98	15:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 CP-1	9/15/98	15:10	C	S	3							X	X	X					*Extract & Hold*
Trip Blank T00001	9/15/98										X								

Per Gary Stanczuk, perform full analysis DE 9/17/98

Sampler(s): Dane G. Olsen, [illegible]

Bottles Reliquished under Airbill No. ~~801309434632~~

Samples Relinquished under Airbill No. 801309434632

Temperature (corrected) 3.7°C open & DE 9/17/98 9:25 am

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Dane G. Olsen	9/16/98	10:00				Yes No
						Yes No
			Received for Laboratory by: Diane Ellmore	9/17/98	9:45 am	Yes No

Cooler ID # 68

Is RFA sampling complete? Yes No

Complete per Gary Stanczuk DE 9/17/98

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy. Data package Yellow: Retained by laboratory Pink: Retained by sampler

Samples placed in storage ID 1 & 2 DE 9/17/98 9:45 am

Revision No. 1
Created September 23, 1997

CompuChem Receiving Log

lient: Chrysler/LPG
rder #: 33825
roject: RFA 249
uote #: 98-7053
ccount #: 50112

Received on: 9/17/98 # of COC's: 1
Delivered by: Federal Express
Freight #: 8013094346332
Subcontract Y / N
TAT: Verbal 48/72 HR Hardcopy 10 day

PPS / RFA # 249 Page 1 of 1
Lab Instructions: RCRA Met + CN / TCLP
List - req analysis / TCLP List on all TCLP samples / ~~Each [illegible] analyzed be sent~~ 9/17/98
Pick QC

	SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	[illegible]
1	24901	1	[illegible]-1-4-6	91[illegible]	1-4oz/2-8oz	RCRA Met/CN/Ref [illegible] VOC-V, Red [illegible]/Hex/	4005, 1357, [illegible]	[illegible]	9/15/98	50	NA
2	↓	2	[illegible]-2-4-5	[illegible]	↓	↓	↓	↓	↓	↓	↓
3	↓	3	[illegible]-2-4-5	[illegible]	↓	↓	↓	↓	↓	↓	↓
4	24902	4	[illegible]-OP-1	91[illegible]-1	1-4oz/2-8oz	[illegible]	1137, 744, 1283, 4005, 236, [illegible]	[illegible]	↓	↓	↓
5	24903	5	[illegible]	91[illegible]	4-40mL vials	[illegible]	1356	1	↓	WA	↓
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

Logged In By: [illegible]
Order Entered By: [illegible]
Cyanide samples checked for sulfide and chlorine Y / NA
Received in good condition Y / N
Holding Blank(s) Counter / Page / CCN's

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-1-4-6

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910246

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010246A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: 13 decanted: (Y/N) N Date Extracted: 09/17/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/18/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
108-95-2	Phenol	380		U
111-44-4	bis(2-Chloroethyl)ether	380		U
95-57-8	2-Chlorophenol	380		U
541-73-1	1,3-Dichlorobenzene	380		U
106-46-7	1,4-Dichlorobenzene	380		U
95-50-1	1,2-Dichlorobenzene	380		U
95-48-7	2-Methylphenol	380		U
39638-32-9	Bis(2-chloroisopropyl)ether	380		U
106-44-5	4-Methylphenol	380		U
621-64-7	N-Nitroso-di-n-propylamine	380		U
67-72-1	Hexachloroethane	380		U
98-95-3	Nitrobenzene	380		U
78-59-1	Isophorone	380		U
88-75-5	2-Nitrophenol	380		U
105-67-9	2,4-Dimethylphenol	380		U
111-91-1	bis(2-Chloroethoxy)methane	380		U
120-83-2	2,4-Dichlorophenol	380		U
120-82-1	1,2,4-Trichlorobenzene	380		U
91-20-3	Naphthalene	380		U
106-47-8	4-Chloroaniline	380		U
87-68-3	Hexachlorobutadiene	380		U
59-50-7	4-Chloro-3-methylphenol	380		U
91-57-6	2-Methylnaphthalene	380		U
77-47-4	Hexachlorocyclopentadiene	380		U
88-06-2	2,4,6-Trichlorophenol	380		U
95-95-4	2,4,5-Trichlorophenol	1800		U
91-58-7	2-Chloronaphthalene	380		U
88-74-4	2-Nitroaniline	1800		U
131-11-3	Dimethylphthalate	380		U
208-96-8	Acenaphthylene	380		U
606-20-2	2,6-Dinitrotoluene	380		U
99-09-2	3-Nitroaniline	1800		U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-1-4-6

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33625 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910246

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010246A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: 13 decanted: (Y/N) N Date Extracted: 09/17/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/18/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
83-32-9	Acenaphthene	380		U
51-28-5	2,4-Dinitrophenol	1800		U
100-02-7	4-Nitrophenol	1800		U
121-14-2	2,4-Dinitrotoluene	380		U
132-64-9	Dibenzofuran	380		U
84-66-2	Diethylphthalate	380		U
7005-72-3	4-Chlorophenyl-phenylether	380		U
86-73-7	Fluorene	380		U
100-01-6	4-Nitroaniline	1800		U
534-52-1	4,6-Dinitro-2-methylphenol	1800		U
86-30-6	N-nitrosodiphenylamine (1)	380		U
101-55-3	4-Bromophenyl-phenylether	380		U
118-74-1	Hexachlorobenzene	380		U
87-86-5	Pentachlorophenol	1800		U
85-01-8	Phenanthrene	380	370	J
120-12-7	Anthracene	380	75	J
86-74-8	Carbazole	380	53	J
84-74-2	Di-n-butylphthalate	380		U
206-44-0	Fluoranthene	380	610	
129-00-0	Pyrene	380	420	
85-68-7	Butylbenzylphthalate	380		U
91-94-1	3,3'-Dichlorobenzidine	760		U
117-81-7	bis(2-Ethylhexyl)phthalate	380		U
56-55-3	Benzo(a)anthracene	380	300	J
218-01-9	Chrysene	380	290	J
117-84-0	Di-n-octylphthalate	380		U
205-99-2	Benzo(b)fluoranthene	380	380	
207-08-9	Benzo(k)fluoranthene	380	130	J
50-32-8	Benzo(a)pyrene	380	250	J
193-39-5	Indeno(1,2,3-cd)pyrene	380	140	J
53-70-3	Dibenzo(a,h)anthracene	380		U
191-24-2	Benzo(g,h,i)perylene	380	140	J

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-2-4-5

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910247

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010247A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: 14 decanted: (Y/N) N Date Extracted: 09/17/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/18/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
108-95-2	Phenol	380		U
111-44-4	bis(2-Chloroethyl)ether	380		U
95-57-8	2-Chlorophenol	380		U
541-73-1	1,3-Dichlorobenzene	380		U
106-46-7	1,4-Dichlorobenzene	380		U
95-50-1	1,2-Dichlorobenzene	380		U
95-48-7	2-Methylphenol	380		U
39638-32-9	Bis(2-chloroisopropyl)ether	380		U
106-44-5	4-Methylphenol	380		U
621-64-7	N-Nitroso-di-n-propylamine	380		U
67-72-1	Hexachloroethane	380		U
98-95-3	Nitrobenzene	380		U
78-59-1	Isophorone	380		U
88-75-5	2-Nitrophenol	380		U
105-67-9	2,4-Dimethylphenol	380		U
111-91-1	bis(2-Chloroethoxy)methane	380		U
120-83-2	2,4-Dichlorophenol	380		U
120-82-1	1,2,4-Trichlorobenzene	380		U
91-20-3	Naphthalene	380		U
106-47-8	4-Chloroaniline	380		U
87-68-3	Hexachlorobutadiene	380		U
59-50-7	4-Chloro-3-methylphenol	380		U
91-57-6	2-Methylnaphthalene	380		U
77-47-4	Hexachlorocyclopentadiene	380		U
88-06-2	2,4,6-Trichlorophenol	380		U
95-95-4	2,4,5-Trichlorophenol	1900		U
91-58-7	2-Chloronaphthalene	380		U
88-74-4	2-Nitroaniline	1900		U
131-11-3	Dimethylphthalate	380		U
208-96-8	Acenaphthylene	380		U
606-20-2	2,6-Dinitrotoluene	380		U
99-09-2	3-Nitroaniline	1900		U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-2-4-5

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910247

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010247A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: 14 decanted: (Y/N) N Date Extracted: 09/17/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/18/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
83-32-9	Acenaphthene	380		U
51-28-5	2,4-Dinitrophenol	1900		U
100-02-7	4-Nitrophenol	1900		U
121-14-2	2,4-Dinitrotoluene	380		U
132-64-9	Dibenzofuran	380		U
84-66-2	Diethylphthalate	380		U
7005-72-3	4-Chlorophenyl-phenylether	380		U
86-73-7	Fluorene	380		U
100-01-6	4-Nitroaniline	1900		U
534-52-1	4,6-Dinitro-2-methylphenol	1900		U
86-30-6	N-nitrosodiphenylamine (1)	380		U
101-55-3	4-Bromophenyl-phenylether	380		U
118-74-1	Hexachlorobenzene	380		U
87-86-5	Pentachlorophenol	1900		U
85-01-8	Phenanthrene	380	54	J
120-12-7	Anthracene	380		U
86-74-8	Carbazole	380		U
84-74-2	Di-n-butylphthalate	380		U
206-44-0	Fluoranthene	380	100	J
129-00-0	Pyrene	380	70	J
85-68-7	Butylbenzylphthalate	380		U
91-94-1	3,3'-Dichlorobenzidine	770		U
117-81-7	bis(2-Ethylhexyl)phthalate	380		U
56-55-3	Benzo(a)anthracene	380	58	J
218-01-9	Chrysene	380	62	J
117-84-0	Di-n-octylphthalate	380		U
205-99-2	Benzo(b)fluoranthene	380	76	J
207-08-9	Benzo(k)fluoranthene	380		U
50-32-8	Benzo(a)pyrene	380	54	J
193-39-5	Indeno(1,2,3-cd)pyrene	380		U
53-70-3	Dibenzo(a,h)anthracene	380		U
191-24-2	Benzo(g,h,i)perylene	380		U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-3-4-5

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910248

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010248A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: 14 decanted: (Y/N) N Date Extracted:09/17/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/18/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
108-95-2	Phenol	380		U
111-44-4	bis(2-Chloroethyl)ether	380		U
95-57-8	2-Chlorophenol	380		U
541-73-1	1,3-Dichlorobenzene	380		U
106-46-7	1,4-Dichlorobenzene	380		U
95-50-1	1,2-Dichlorobenzene	380		U
95-48-7	2-Methylphenol	380		U
39638-32-9	Bis(2-chloroisopropyl)ether	380		U
106-44-5	4-Methylphenol	380		U
621-64-7	N-Nitroso-di-n-propylamine	380		U
67-72-1	Hexachloroethane	380		U
98-95-3	Nitrobenzene	380		U
78-59-1	Isophorone	380		U
88-75-5	2-Nitrophenol	380		U
105-67-9	2,4-Dimethylphenol	380		U
111-91-1	bis(2-Chloroethoxy)methane	380		U
120-83-2	2,4-Dichlorophenol	380		U
120-82-1	1,2,4-Trichlorobenzene	380		U
91-20-3	Naphthalene	380		U
106-47-8	4-Chloroaniline	380		U
87-68-3	Hexachlorobutadiene	380		U
59-50-7	4-Chloro-3-methylphenol	380		U
91-57-6	2-Methylnaphthalene	380		U
77-47-4	Hexachlorocyclopentadiene	380		U
88-06-2	2,4,6-Trichlorophenol	380		U
95-95-4	2,4,5-Trichlorophenol	1900		U
91-58-7	2-Chloronaphthalene	380		U
88-74-4	2-Nitroaniline	1900		U
131-11-3	Dimethylphthalate	380		U
208-96-8	Acenaphthylene	380		U
606-20-2	2,6-Dinitrotoluene	380		U
99-09-2	3-Nitroaniline	1900		U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-3-4-5

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910248

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010248A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: 14 decanted: (Y/N) N Date Extracted: 09/17/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/18/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
83-32-9	Acenaphthene	380		U
51-28-5	2,4-Dinitrophenol	1900		U
100-02-7	4-Nitrophenol	1900		U
121-14-2	2,4-Dinitrotoluene	380		U
132-64-9	Dibenzofuran	380		U
84-66-2	Diethylphthalate	380		U
7005-72-3	4-Chlorophenyl-phenylether	380		U
86-73-7	Fluorene	380		U
100-01-6	4-Nitroaniline	1900		U
534-52-1	4,6-Dinitro-2-methylphenol	1900		U
86-30-6	N-nitrosodiphenylamine (1)	380		U
101-55-3	4-Bromophenyl-phenylether	380		U
118-74-1	Hexachlorobenzene	380		U
87-86-5	Pentachlorophenol	1900		U
85-01-8	Phenanthrene	380	150	J
120-12-7	Anthracene	380		U
86-74-8	Carbazole	380		U
84-74-2	Di-n-butylphthalate	380		U
206-44-0	Fluoranthene	380	250	J
129-00-0	Pyrene	380	180	J
85-68-7	Butylbenzylphthalate	380		U
91-94-1	3,3'-Dichlorobenzidine	770		U
117-81-7	bis(2-Ethylhexyl)phthalate	380		U
56-55-3	Benzo(a)anthracene	380	110	J
218-01-9	Chrysene	380	110	J
117-84-0	Di-n-octylphthalate	380		U
205-99-2	Benzo(b)fluoranthene	380	110	J
207-08-9	Benzo(k)fluoranthene	380	76	J
50-32-8	Benzo(a)pyrene	380	71	J
193-39-5	Indeno(1,2,3-cd)pyrene	380	47	J
53-70-3	Dibenzo(a,h)anthracene	380		U
191-24-2	Benzo(g,h,i)perylene	380	46	J

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-3-4-5MS

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910253

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010253A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: 14 decanted: (Y/N) N Date Extracted: 09/17/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/18/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
108-95-2	Phenol	380	3100	
111-44-4	bis(2-Chloroethyl)ether	380	3200	
95-57-8	2-Chlorophenol	380	3100	
541-73-1	1,3-Dichlorobenzene	380	2900	
106-46-7	1,4-Dichlorobenzene	380	3000	
95-50-1	1,2-Dichlorobenzene	380	3000	
95-48-7	2-Methylphenol	380	3200	
39638-32-9	Bis(2-chloroisopropyl)ether	380	2900	
106-44-5	4-Methylphenol	380	3000	
621-64-7	N-Nitroso-di-n-propylamine	380	3200	
67-72-1	Hexachloroethane	380	3000	
98-95-3	Nitrobenzene	380	3400	
78-59-1	Isophorone	380	3200	
88-75-5	2-Nitrophenol	380	3200	
105-67-9	2,4-Dimethylphenol	380	3400	
111-91-1	bis(2-Chloroethoxy)methane	380	3600	
120-83-2	2,4-Dichlorophenol	380	3300	
120-82-1	1,2,4-Trichlorobenzene	380	3300	
91-20-3	Naphthalene	380	3400	
106-47-8	4-Chloroaniline	380	2700	
87-68-3	Hexachlorobutadiene	380	3400	
59-50-7	4-Chloro-3-methylphenol	380	3500	
91-57-6	2-Methylnaphthalene	380	3100	
77-47-4	Hexachlorocyclopentadiene	380	3400	
88-06-2	2,4,6-Trichlorophenol	380	3700	
95-95-4	2,4,5-Trichlorophenol	1900	3100	
91-58-7	2-Chloronaphthalene	380	3600	
88-74-4	2-Nitroaniline	1900	3500	
131-11-3	Dimethylphthalate	380	3900	
208-96-8	Acenaphthylene	380	3700	
606-20-2	2,6-Dinitrotoluene	380	3900	
99-09-2	3-Nitroaniline	1900	3500	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-3-4-5MS

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910253

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010253A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: 14 decanted: (Y/N) N Date Extracted: 09/17/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/18/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
83-32-9	Acenaphthene	380	3700	
51-28-5	2,4-Dinitrophenol	1900	3600	
100-02-7	4-Nitrophenol	1900	3600	
121-14-2	2,4-Dinitrotoluene	380	3600	
132-64-9	Dibenzofuran	380	3300	
84-66-2	Diethylphthalate	380	3700	
7005-72-3	4-Chlorophenyl-phenylether	380	3800	
86-73-7	Fluorene	380	3800	
100-01-6	4-Nitroaniline	1900	3500	
534-52-1	4,6-Dinitro-2-methylphenol	1900	3600	
86-30-6	N-nitrosodiphenylamine (1)	380	3800	
101-55-3	4-Bromophenyl-phenylether	380	4300	
118-74-1	Hexachlorobenzene	380	3900	
87-86-5	Pentachlorophenol	1900	3800	
85-01-8	Phenanthrene	380	4000	
120-12-7	Anthracene	380	3900	
86-74-8	Carbazole	380	3500	
84-74-2	Di-n-butylphthalate	380	3600	B
206-44-0	Fluoranthene	380	4100	
129-00-0	Pyrene	380	3400	
85-68-7	Butylbenzylphthalate	380	3100	
91-94-1	3,3'-Dichlorobenzidine	770	2600	
117-81-7	bis(2-Ethylhexyl)phthalate	380	11000	E
56-55-3	Benzo(a)anthracene	380	3700	
218-01-9	Chrysene	380	3400	
117-84-0	Di-n-octylphthalate	380	3900	
205-99-2	Benzo(b)fluoranthene	380	4400	
207-08-9	Benzo(k)fluoranthene	380	4000	
50-32-8	Benzo(a)pyrene	380	4200	
193-39-5	Indeno(1,2,3-cd)pyrene	380	3700	
53-70-3	Dibenzo(a,h)anthracene	380	4100	
191-24-2	Benzo(g,h,i)perylene	380	4100	

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-3-4-5MSD

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910254

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010254A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: 14 decanted: (Y/N) N Date Extracted: 09/17/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/18/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
108-95-2	Phenol	380	3300	
111-44-4	bis(2-Chloroethyl)ether	380	3300	
95-57-8	2-Chlorophenol	380	3200	
541-73-1	1,3-Dichlorobenzene	380	2800	
106-46-7	1,4-Dichlorobenzene	380	3000	
95-50-1	1,2-Dichlorobenzene	380	3000	
95-48-7	2-Methylphenol	380	3500	
39638-32-9	Bis(2-chloroisopropyl)ether	380	3000	
106-44-5	4-Methylphenol	380	3300	
621-64-7	N-Nitroso-di-n-propylamine	380	3300	
67-72-1	Hexachloroethane	380	2900	
98-95-3	Nitrobenzene	380	3400	
78-59-1	Isophorone	380	3400	
88-75-5	2-Nitrophenol	380	3200	
105-67-9	2,4-Dimethylphenol	380	3600	
111-91-1	bis(2-Chloroethoxy)methane	380	3600	
120-83-2	2,4-Dichlorophenol	380	3500	
120-82-1	1,2,4-Trichlorobenzene	380	3400	
91-20-3	Naphthalene	380	3500	
106-47-8	4-Chloroaniline	380	2700	
87-68-3	Hexachlorobutadiene	380	3300	
59-50-7	4-Chloro-3-methylphenol	380	3700	
91-57-6	2-Methylnaphthalene	380	3200	
77-47-4	Hexachlorocyclopentadiene	380	3000	
88-06-2	2,4,6-Trichlorophenol	380	3900	
95-95-4	2,4,5-Trichlorophenol	1900	3700	
91-58-7	2-Chloronaphthalene	380	3600	
88-74-4	2-Nitroaniline	1900	3700	
131-11-3	Dimethylphthalate	380	4100	
208-96-8	Acenaphthylene	380	3900	
606-20-2	2,6-Dinitrotoluene	380	4100	
99-09-2	3-Nitroaniline	1900	3700	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-3-4-5MSD

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910254

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010254A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: 14 decanted: (Y/N) N Date Extracted: 09/17/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/18/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
83-32-9	Acenaphthene	380	4000	
51-28-5	2,4-Dinitrophenol	1900	3400	
100-02-7	4-Nitrophenol	1900	4000	
121-14-2	2,4-Dinitrotoluene	380	3900	
132-64-9	Dibenzofuran	380	3600	
84-66-2	Diethylphthalate	380	4100	
7005-72-3	4-Chlorophenyl-phenylether	380	4200	
86-73-7	Fluorene	380	4100	
100-01-6	4-Nitroaniline	1900	3600	
534-52-1	4,6-Dinitro-2-methylphenol	1900	3600	
86-30-6	N-nitrosodiphenylamine (1)	380	3900	
101-55-3	4-Bromophenyl-phenylether	380	4200	
118-74-1	Hexachlorobenzene	380	3900	
87-86-5	Pentachlorophenol	1900	4000	
85-01-8	Phenanthrene	380	4100	
120-12-7	Anthracene	380	4000	
86-74-8	Carbazole	380	3700	
84-74-2	Di-n-butylphthalate	380	3900	B
206-44-0	Fluoranthene	380	4200	
129-00-0	Pyrene	380	3500	
85-68-7	Butylbenzylphthalate	380	3400	
91-94-1	3,3'-Dichlorobenzidine	770	2400	
117-81-7	bis(2-Ethylhexyl)phthalate	380	3500	
56-55-3	Benzo(a)anthracene	380	3700	
218-01-9	Chrysene	380	3500	
117-84-0	Di-n-octylphthalate	380	4000	
205-99-2	Benzo(b)fluoranthene	380	4300	
207-08-9	Benzo(k)fluoranthene	380	4000	
50-32-8	Benzo(a)pyrene	380	4200	
193-39-5	Indeno(1,2,3-cd)pyrene	380	3800	
53-70-3	Dibenzo(a,h)anthracene	380	4100	
191-24-2	Benzo(g,h,i)perylene	380	4000	

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SLCSLF

Project: YGQP9800249 Date Sampled: _____

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910331

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010331A68.D

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

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/17/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/18/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
108-95-2	Phenol	330	2400	
111-44-4	bis(2-Chloroethyl)ether	330	2400	
95-57-8	2-Chlorophenol	330	2300	
541-73-1	1,3-Dichlorobenzene	330	2100	
106-46-7	1,4-Dichlorobenzene	330	2200	
95-50-1	1,2-Dichlorobenzene	330	2200	
95-48-7	2-Methylphenol	330	2500	
39638-32-9	Bis(2-chloroisopropyl)ether	330	2200	
106-44-5	4-Methylphenol	330	2400	
621-64-7	N-Nitroso-di-n-propylamine	330	2500	
67-72-1	Hexachloroethane	330	2100	
98-95-3	Nitrobenzene	330	2500	
78-59-1	Isophorone	330	2400	
88-75-5	2-Nitrophenol	330	2300	
105-67-9	2,4-Dimethylphenol	330	2500	
111-91-1	bis(2-Chloroethoxy)methane	330	2400	
120-83-2	2,4-Dichlorophenol	330	2500	
120-82-1	1,2,4-Trichlorobenzene	330	2400	
91-20-3	Naphthalene	330	2500	
106-47-8	4-Chloroaniline	330	1900	
87-68-3	Hexachlorobutadiene	330	2400	
59-50-7	4-Chloro-3-methylphenol	330	2800	
91-57-6	2-Methylnaphthalene	330	2300	
77-47-4	Hexachlorocyclopentadiene	330	2400	
88-06-2	2,4,6-Trichlorophenol	330	2600	
95-95-4	2,4,5-Trichlorophenol	1600	2300	
91-58-7	2-Chloronaphthalene	330	2400	
88-74-4	2-Nitroaniline	1600	2600	
131-11-3	Dimethylphthalate	330	2900	
208-96-8	Acenaphthylene	330	2700	
606-20-2	2,6-Dinitrotoluene	330	2800	
99-09-2	3-Nitroaniline	1600	2600	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SLCSLF

Project: YGQP9800249 Date Sampled: _____

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910331

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010331A68.D

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

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/17/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/18/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
83-32-9	Acenaphthene	330	2700	
51-28-5	2,4-Dinitrophenol	1600	3200	
100-02-7	4-Nitrophenol	1600	3000	
121-14-2	2,4-Dinitrotoluene	330	2800	
132-64-9	Dibenzofuran	330	2500	
84-66-2	Diethylphthalate	330	2900	
7005-72-3	4-Chlorophenyl-phenylether	330	2900	
86-73-7	Fluorene	330	2900	
100-01-6	4-Nitroaniline	1600	2600	
534-52-1	4,6-Dinitro-2-methylphenol	1600	2800	
86-30-6	N-nitrosodiphenylamine (1)	330	2800	
101-55-3	4-Bromophenyl-phenylether	330	3000	
118-74-1	Hexachlorobenzene	330	2800	
87-86-5	Pentachlorophenol	1600	3100	
85-01-8	Phenanthrene	330	2800	
120-12-7	Anthracene	330	2800	
86-74-8	Carbazole	330	2600	
84-74-2	Di-n-butylphthalate	330	2800	B
206-44-0	Fluoranthene	330	2800	
129-00-0	Pyrene	330	2600	
85-68-7	Butylbenzylphthalate	330	2500	
91-94-1	3,3'-Dichlorobenzidine	660	1700	
117-81-7	bis(2-Ethylhexyl)phthalate	330	2700	
56-55-3	Benzo(a)anthracene	330	2700	
218-01-9	Chrysene	330	2500	
117-84-0	Di-n-octylphthalate	330	3100	
205-99-2	Benzo(b)fluoranthene	330	3200	
207-08-9	Benzo(k)fluoranthene	330	2900	
50-32-8	Benzo(a)pyrene	330	3100	
193-39-5	Indeno(1,2,3-cd)pyrene	330	2700	
53-70-3	Dibenzo(a,h)anthracene	330	3000	
191-24-2	Benzo(g,h,i)perylene	330	3000	

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLKLF

Project: YGQP9800249 Date Sampled: _____

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910330

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010330A68.D

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

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/17/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/18/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
108-95-2	Phenol	330		U
111-44-4	bis(2-Chloroethyl)ether	330		U
95-57-8	2-Chlorophenol	330		U
541-73-1	1,3-Dichlorobenzene	330		U
106-46-7	1,4-Dichlorobenzene	330		U
95-50-1	1,2-Dichlorobenzene	330		U
95-48-7	2-Methylphenol	330		U
39638-32-9	Bis(2-chloroisopropyl)ether	330		U
106-44-5	4-Methylphenol	330		U
621-64-7	N-Nitroso-di-n-propylamine	330		U
67-72-1	Hexachloroethane	330		U
98-95-3	Nitrobenzene	330		U
78-59-1	Isophorone	330		U
88-75-5	2-Nitrophenol	330		U
105-67-9	2,4-Dimethylphenol	330		U
111-91-1	bis(2-Chloroethoxy)methane	330		U
120-83-2	2,4-Dichlorophenol	330		U
120-82-1	1,2,4-Trichlorobenzene	330		U
91-20-3	Naphthalene	330		U
106-47-8	4-Chloroaniline	330		U
87-68-3	Hexachlorobutadiene	330		U
59-50-7	4-Chloro-3-methylphenol	330		U
91-57-6	2-Methylnaphthalene	330		U
77-47-4	Hexachlorocyclopentadiene	330		U
88-06-2	2,4,6-Trichlorophenol	330		U
95-95-4	2,4,5-Trichlorophenol	1600		U
91-58-7	2-Chloronaphthalene	330		U
88-74-4	2-Nitroaniline	1600		U
131-11-3	Dimethylphthalate	330		U
208-96-8	Acenaphthylene	330		U
606-20-2	2,6-Dinitrotoluene	330		U
99-09-2	3-Nitroaniline	1600		U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLKLF

Project: YGQP9800249 Date Sampled: _____

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910330

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010330A68.D

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

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/17/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/18/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
83-32-9	Acenaphthene	330		U
51-28-5	2,4-Dinitrophenol	1600		U
100-02-7	4-Nitrophenol	1600		U
121-14-2	2,4-Dinitrotoluene	330		U
132-64-9	Dibenzofuran	330		U
84-66-2	Diethylphthalate	330		U
7005-72-3	4-Chlorophenyl-phenylether	330		U
86-73-7	Fluorene	330		U
100-01-6	4-Nitroaniline	1600		U
534-52-1	4,6-Dinitro-2-methylphenol	1600		U
86-30-6	N-nitrosodiphenylamine (1)	330		U
101-55-3	4-Bromophenyl-phenylether	330		U
118-74-1	Hexachlorobenzene	330		U
87-86-5	Pentachlorophenol	1600		U
85-01-8	Phenanthrene	330		U
120-12-7	Anthracene	330		U
86-74-8	Carbazole	330		U
84-74-2	Di-n-butylphthalate	330	39	J
206-44-0	Fluoranthene	330		U
129-00-0	Pyrene	330		U
85-68-7	Butylbenzylphthalate	330		U
91-94-1	3,3'-Dichlorobenzidine	660		U
117-81-7	bis(2-Ethylhexyl)phthalate	330		U
56-55-3	Benzo(a)anthracene	330		U
218-01-9	Chrysene	330		U
117-84-0	Di-n-octylphthalate	330		U
205-99-2	Benzo(b)fluoranthene	330		U
207-08-9	Benzo(k)fluoranthene	330		U
50-32-8	Benzo(a)pyrene	330		U
193-39-5	Indeno(1,2,3-cd)pyrene	330		U
53-70-3	Dibenzo(a,h)anthracene	330		U
191-24-2	Benzo(g,h,i)perylene	330		U

(1) - Cannot be separated from Diphenylamine

4B

SEMIVOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

SBLKLF

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Lab File ID: GH010330A68.D Lab Sample ID: 910330

Instrument ID: 5972HP68 Date Extracted: 09/17/98

Matrix: (soil/water) SOIL Date Analyzed: 09/18/98

Level: (low/med) LOW Time Analyzed: 1717

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCSLF	910331	GH010331A68.D	09/18/98
02	SP1-SB-3-4-5	910248	GH010248A68.D	09/18/98
03	SP1-SB-3-4-5	910253	GH010253A68.D	09/18/98
04	SP1-SB-3-4-5	910254	GH010254A68.D	09/18/98
05	SP1-SB-1-4-6	910246	GH010246A68.D	09/18/98
06	SP1-SB-2-4-5	910247	GH010247A68.D	09/18/98
07				
08				
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COMMENTS:

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Level: (low/med) LOW

	SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 #	S8 #	TOT OUT
01	SBLKLF	70	72	70	65	65	75			0
02	SLCSLF	52	58	63	58	55	74			0
03	SP1-SB-1-4-6	58	63	63	57	54	73			0
04	SP1-SB-2-4-5	67	71	64	65	64	81			0
05	SP1-SB-3-4-5	67	70	67	66	64	80			0
06	SP1-SB-3-4-5	65	72	68	69	65	86			0
07	SP1-SB-3-4-5	61	68	68	68	63	86			0
08										
09										
10										
11										
12										
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26										
27										
28										
29										
30										

			QC LIMITS
S1	(NBZ)	= Nitrobenzene-d5	(23-120)
S2	(FBP)	= 2-Fluorobiphenyl	(30-115)
S3	(TPH)	= Terphenyl-d14	(18-137)
S4	(PHL)	= Phenol-d5	(24-113)
S5	(2FP)	= 2-Fluorophenol	(25-121)
S6	(TBP)	= 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix Spike - Sample No.: SP1-SB-3-4-5 Level(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3876	0.000	3105	80	10-150
bis(2-Chloroethyl)ether	3876	0.000	3182	82	10-150
2-Chlorophenol	3876	0.000	3072	79	10-150
1,3-Dichlorobenzene	3876	0.000	2871	74	10-150
1,4-Dichlorobenzene	3876	0.000	2988	77	10-150
1,2-Dichlorobenzene	3876	0.000	3012	78	10-150
Bis(2-chloroisopropyl)e	3876	0.000	2879	74	10-150
N-Nitroso-di-n-prop.(1)	3876	0.000	3184	82	10-150
Hexachloroethane	3876	0.000	2960	76	10-150
Nitrobenzene	3876	0.000	3386	87	10-150
Isophorone	3876	0.000	3237	84	10-150
2-Nitrophenol	3876	0.000	3222	83	10-150
2,4-Dimethylphenol	3876	0.000	3377	87	10-150
bis(2-Chloroethoxy)meth	3876	0.000	3577	92	10-150
2,4-Dichlorophenol	3876	0.000	3277	84	10-150
1,2,4-Trichlorobenzene	3876	0.000	3325	86	10-150
Naphthalene	3876	0.000	3442	89	10-150
Hexachlorobutadiene	3876	0.000	3388	87	10-150
4-Chloro-3-methylphenol	3876	0.000	3485	90	10-150
Hexachlorocyclopentadie	3876	0.000	3395	88	10-150
2,4,6-Trichlorophenol	3876	0.000	3740	96	10-150
2-Chloronaphthalene	3876	0.000	3622	93	10-150
2-Nitroaniline	3876	0.000	3531	91	10-150
Dimethylphthalate	3876	0.000	3872	100	10-150
Acenaphthylene	3876	0.000	3669	95	10-150
2,6-Dinitrotoluene	3876	0.000	3869	100	10-150
Acenaphthene	3876	0.000	3743	96	10-150
2,4-Dinitrophenol	3876	0.000	3587	92	10-150
4-Nitrophenol	3876	0.000	3598	93	10-150
2,4-Dinitrotoluene	3876	0.000	3619	93	10-150

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix Spike - Sample No.: SP1-SB-3-4-5 Level(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Diethylphthalate	3876	0.000	3735	96	10-150
4-Chlorophenyl-phenylet	3876	0.000	3759	97	10-150
Fluorene	3876	0.000	3849	99	10-150
4,6-Dinitro-2-methylphe	3876	0.000	3630	94	10-150
N-nitrosodiphenylamine	3876	0.000	3844	99	10-150
4-Bromophenyl-phenyleth	3876	0.000	4265	110	10-150
Hexachlorobenzene	3876	0.000	3865	100	10-150
Pentachlorophenol	3876	0.000	3842	99	10-150
Phenanthrene	3876	147.5	4010	100	10-150
Anthracene	3876	0.000	3888	100	10-150
Di-n-butylphthalate	3876	0.000	3609	93	10-150
Fluoranthene	3876	253.0	4062	98	10-150
Pyrene	3876	184.9	3434	84	10-150
Butylbenzylphthalate	3876	0.000	3135	81	10-150
bis(2-Ethylhexyl)phthal	3876	0.000	11370	293*	10-150
Benzo(a)anthracene	3876	108.9	3654	91	10-150
Chrysene	3876	112.1	3443	86	10-150
Di-n-octylphthalate	3876	0.000	3856	99	10-150
Benzo(b)fluoranthene	3876	106.3	4375	110	10-150
Benzo(k)fluoranthene	3876	76.28	4015	102	10-150
Benzo(a)pyrene	3876	70.98	4175	106	10-150
Indeno(1,2,3-cd)pyrene	3876	47.34	3696	94	10-150
Dibenzo(a,h)anthracene	3876	0.000	4058	105	10-150
Benzo(g,h,i)perylene	3876	45.76	4094	104	10-150

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix Spike - Sample No.: SP1-SB-3-4-5 Level(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3876	3254	84	5	40	10-150
bis(2-Chloroethyl)ether	3876	3345	86	5	40	10-150
2-Chlorophenol	3876	3172	82	4	40	10-150
1,3-Dichlorobenzene	3876	2802	72	3	40	10-150
1,4-Dichlorobenzene	3876	2993	77	0	40	10-150
1,2-Dichlorobenzene	3876	3002	77	1	40	10-150
Bis(2-chloroisopropyl)e	3876	2996	77	4	40	10-150
N-Nitroso-di-n-prop.(1)	3876	3321	86	5	40	10-150
Hexachloroethane	3876	2904	75	1	40	10-150
Nitrobenzene	3876	3426	88	1	40	10-150
Isophorone	3876	3395	88	5	40	10-150
2-Nitrophenol	3876	3230	83	0	40	10-150
2,4-Dimethylphenol	3876	3634	94	8	40	10-150
bis(2-Chloroethoxy)meth	3876	3561	92	0	40	10-150
2,4-Dichlorophenol	3876	3466	89	6	40	10-150
1,2,4-Trichlorobenzene	3876	3420	88	2	40	10-150
Naphthalene	3876	3541	91	2	40	10-150
Hexachlorobutadiene	3876	3344	86	1	40	10-150
4-Chloro-3-methylphenol	3876	3665	94	4	40	10-150
Hexachlorocyclopentadie	3876	2994	77	13	40	10-150
2,4,6-Trichlorophenol	3876	3930	101	5	40	10-150
2-Chloronaphthalene	3876	3616	93	0	40	10-150
2-Nitroaniline	3876	3709	96	5	40	10-150
Dimethylphthalate	3876	4121	106	6	40	10-150
Acenaphthylene	3876	3878	100	5	40	10-150
2,6-Dinitrotoluene	3876	4051	104	4	40	10-150
Acenaphthene	3876	3957	102	6	40	10-150
2,4-Dinitrophenol	3876	3380	87	6	40	10-150
4-Nitrophenol	3876	3976	102	9	40	10-150
2,4-Dinitrotoluene	3876	3908	101	8	40	10-150

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix Spike - Sample No.: SP1-SB-3-4-5 Level(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Diethylphthalate	3876	4054	104	8	40	10-150
4-Chlorophenyl-phenylet	3876	4186	108	11	40	10-150
Fluorene	3876	4087	105	6	40	10-150
4,6-Dinitro-2-methylphe	3876	3604	93	1	40	10-150
N-nitrosodiphenylamine	3876	3918	101	2	40	10-150
4-Bromophenyl-phenyleth	3876	4159	107	3	40	10-150
Hexachlorobenzene	3876	3886	100	0	40	10-150
Pentachlorophenol	3876	3953	102	3	40	10-150
Phenanthrene	3876	4118	102	2	40	10-150
Anthracene	3876	3981	103	3	40	10-150
Di-n-butylphthalate	3876	3895	100	7	40	10-150
Fluoranthene	3876	4204	102	4	40	10-150
Pyrene	3876	3477	85	1	40	10-150
Butylbenzylphthalate	3876	3375	87	7	40	10-150
bis(2-Ethylhexyl)phthal	3876	3480	90	106*	40	10-150
Benzo(a)anthracene	3876	3673	92	1	40	10-150
Chrysene	3876	3524	88	2	40	10-150
Di-n-octylphthalate	3876	4018	104	5	40	10-150
Benzo(b)fluoranthene	3876	4315	108	2	40	10-150
Benzo(k)fluoranthene	3876	3971	100	2	40	10-150
Benzo(a)pyrene	3876	4181	106	0	40	10-150
Indeno(1,2,3-cd)pyrene	3876	3777	96	2	40	10-150
Dibenzo(a,h)anthracene	3876	4071	105	0	40	10-150
Benzo(g,h,i)perylene	3876	3966	101	3	40	10-150

(1) N-Nitroso-di-n-propylamine

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

RPD: 1 out of 54 outside limits
Spike Recovery: 1 out of ** outside limits

COMMENTS: _____

Data File: /chem/5972hp68.i/DF980918A68_288.b/GH010331A68.d
Report Date: 21-Sep-1998 10:19

CompuChem Environmental Corp.

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: 910331
Level: LOW
Data Type: MS DATA
SpikeList File: PPL.spk
Client SDG: 24901-33825
Fraction: SV
Client Smp ID: SLCSLF
Operator: 2319
SampleType: METHSPIKE
Quant Type: ISTD
Method File: /chem/5972hp68.i/DF980918A68_288.b/8270_288.m
Misc Info: YGQP9800249

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
13 N-nitrosodimethyla	3333	1872	56.16	10-150
15 Phenol	3333	2356	70.67	10-150
17 bis(2-Chloroethyl)	3333	2428	72.84	10-150
18 2-Chlorophenol	3333	2318	69.53	10-150
19 1,3-Dichlorobenzen	3333	2086	62.57	10-150
20 1,4-Dichlorobenzen	3333	2157	64.71	10-150
21 1,2-Dichlorobenzen	3333	2195	65.86	10-150
23 Bis(2-chloroisopro	3333	2182	65.45	10-150
26 N-Nitroso-di-n-pro	3333	2508	75.26	10-150
27 Hexachloroethane	3333	2106	63.17	10-150
28 Nitrobenzene	3333	2455	73.66	10-150
29 Isophorone	3333	2352	70.58	10-150
30 2-Nitrophenol	3333	2294	68.82	10-150
31 2,4-Dimethylphenol	3333	2542	76.27	10-150
32 bis(2-Chloroethoxy	3333	2450	73.51	10-150
33 2,4-Dichlorophenol	3333	2526	75.79	10-150
34 1,2,4-Trichloroben	3333	2356	70.68	10-150
35 Naphthalene	3333	2471	74.14	10-150
37 Hexachlorobutadien	3333	2404	72.14	10-150
38 4-Chloro-3-methylp	3333	2767	83.00	10-150
41 Hexachlorocyclopen	3333	2396	71.89	10-150
42 2,4,6-Trichlorophe	3333	2648	79.43	10-150
44 2-Chloronaphthalen	3333	2379	71.36	10-150
45 2-Nitroaniline	3333	2607	78.22	10-150
46 Dimethylphthalate	3333	2905	87.14	10-150
47 Acenaphthylene	3333	2656	79.68	10-150
48 2,6-Dinitrotoluene	3333	2811	84.34	10-150
50 Acenaphthene	3333	2698	80.93	10-150
51 2,4-Dinitrophenol	3333	3218	96.55	10-150
52 4-Nitrophenol	3333	2958	88.73	10-150
53 2,4-Dinitrotoluene	3333	2781	83.42	10-150
55 Diethylphthalate	3333	2912	87.37	10-150
56 4-Chlorophenyl-phe	3333	2913	87.40	10-150
57 Fluorene	3333	2886	86.58	10-150
59 4,6-Dinitro-2-meth	3333	2829	84.88	10-150
60 N-nitrosodiphenyla	3333	2779	83.37	10-150

Data File: /chem/5972hp68.i/DF980918A68_288.b/GH010331A68.d
Report Date: 21-Sep-1998 10:19

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
61 1,2-Diphenylhydraz	3333	2273	68.20	10-150
62 4-Bromophenyl-phen	3333	2975	89.26	10-150
63 Hexachlorobenzene	3333	2828	84.84	10-150
64 Pentachlorophenol	3333	3062	91.87	10-150
65 Phenanthrene	3333	2790	83.69	10-150
66 Anthracene	3333	2758	82.75	10-150
68 Di-n-butylphthalat	3333	2796	83.88	10-150
69 Fluoranthene	3333	2754	82.63	10-150
70 Benzidine	3333	1564	46.91	2-150
71 Pyrene	3333	2574	77.21	10-150
72 Butylbenzylphthala	3333	2487	74.61	10-150
74 bis(2-Ethylhexyl)p	3333	2665	79.96	10-150
75 Benzo(a)anthracene	3333	2694	80.82	10-150
76 Chrysene	3333	2503	75.10	10-150
77 Di-n-octylphthalat	3333	3096	92.88	10-150
78 Benzo(b)fluoranthe	3333	3189	95.67	10-150
79 Benzo(k)fluoranthe	3333	2881	86.44	10-150
80 Benzo(a)pyrene	3333	3078	92.35	10-150
81 Indeno(1,2,3-cd)py	3333	2713	81.39	10-150
82 Dibenzo(a,h)anthra	3333	3011	90.34	10-150
83 Benzo(g,h,i)peryle	3333	2969	89.07	10-150

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	3333	1846	55.39	25-121
$ 8 Phenol-d5	3333	1949	58.47	24-113
$ 9 Nitrobenzene-d5	1667	862.6	51.75	23-120
$ 10 2-Fluorobiphenyl	1667	969.4	58.17	30-115
$ 11 2,4,6-Tribromophen	3333	2475	74.26	19-122
$ 12 Terphenyl-d14	1667	1050	63.00	18-137

COMPUCHEM
a division of Liberty Analytical Corp.

Dayton Stockpile
RFA 98-349 & 350
Pesticides

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33825

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 3 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Colleen Wilson

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

COMPUCHEM
a division of Liberty Analytical Corp.

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
910246	SP1-SB-1-4-6	9/17/98
910247	SP1-SB-2-4-5	9/17/98
910248	SP1-SB-3-4-5	9/17/98

TOTAL NUMBER OF SAMPLES = 3

501 Madison Avenue ■ Cary N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

CompuChem
a division of Liberty Analytical Corp.
501 Madison Avenue
Cary, NC 27513

SDG NARRATIVE

CASE: 33825
SDG: 24901

SAMPLE IDENTIFICATIONS: SP1-SB-1-4-6, SP1-SB-2-4-5, SP1-SB-3-4-5

The three (3) soil samples listed above were received intact, properly refrigerated, with proper chain-of-custody (COC) documentation, on September 17, 1998. The samples were prepared and analyzed for the pesticide and PCB fractions following SW846 Method 8081 protocol.

PESTICIDE/PCB

Extraction and analysis holding time requirements were met for these samples. No pesticide or PCB target analytes were confirmed by dual column analysis at a concentration above the reporting limit in any of these samples.

The opening continuing calibration standards analyzed on VARIAN34 failed percent difference quality control criteria. The opening continuing calibration standards simultaneously analyzed on VARIAN35 met all quality control criteria. Due to an instrument failure, no closing continuing calibration standards were analyzed. Since no pesticide or PCB target analytes were found at concentrations above the reporting limit, and the LCS met all recovery criteria, we have reported the data without further analysis.

All of the surrogates met recovery criteria with one exception. The recovery of decachloro-biphenyl (DCB) fell above the quality control criteria limit on the CLPPEST1 column in the analysis of SP1-SB-3-4-5. All of the surrogates met retention time criteria in the analyses of these samples.

The associated method blank met all quality control criteria. The method blank contained concentrations of the pesticide target analytes heptachlor epoxide and endosulfan I which were within acceptance limits. No PCB target analytes were detected in the method blank.

SP1-SB-1-4-6 was used as the original to prepare the duplicate matrix spikes. The associated duplicate matrix spikes met all advisory accuracy and precision criteria with two exceptions. The recovery of the spike compound gamma-BHC was flagged as an outlier in the matrix spike. The Relative Percent Difference (RPD) of gamma-BHC was also flagged as an outlier in the comparison of the duplicate matrix spikes. The associated Laboratory Control Sample (LCS) met all quality control criteria.

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 conditions listed above. Release of the data contained in the hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Stephanie W. Winfield 9-21-98
Stephanie W. Winfield
Technical Reviewer
September 21, 1998

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL) (or Reporting Limit) will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicates the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

C : **This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)**

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

S : This flag indicates that an analyte was detected by a single column GC analysis but the result was below the Reporting Limit. This flag is only used when clients request a second (confirmation) column analysis after detecting an analyte above the Reporting Limit in the initial, single column analysis. This flag alerts the data user that only an analyte was detected below the Reporting Limit and a second (confirmation) analysis was not performed.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

CHRYSLER CORPORATION

Chain-of-Custody

01529 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, Ohio
Site Code: SC001
RFA Number:
Chrysler PM: Gary Stanczuk

This is RFA # 349 per Ken Vogel DE 9/17/98

Consultant: Leggette, Brashears & Graham Inc.
Address: 1210 W. Co. Rd. E.
St Paul, Mn. 55112
Consultant PM: Ken Vogel
Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

Per Gary Stanczuk 48/77 TAT DE 9/17/98

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	SVOC ~~#1~~	PCB's ~~#1~~	Herb/Pest	RCRA Metals + CN	TPH 418.1	VOC's 8260	TCLP-SVOC/VOC/PCB	TCLP-Pest/Herb/TPH	TCLP-RCRA Metals + CN	Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
Soil Pile #1 SB-1 4-6'	9/15/98	14:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 SB-2 4-5'	9/15/98	14:30	G	S	3	X	X	X	X	X	X								
Soil Pile # SB-3 4-5'	9/15/98	15:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 CP-1	9/15/98	15:10	C	S	3							X	X	X					*Extract & Hold*
Trip Blank T00001	9/15/98										X								

Per Gary Stanczuk, perform full analysis DE 9/17/98

Sampler(s): Jane G. Olsen, [signature]

Cooler ID # 68

Is RFA sampling complete? Yes No

Bottles Reliquished under Airbill No. ~~801309434632~~

Samples Relinquished under Airbill No. 801309434632

Temperature (corrected) 3.7C open & DE 9/17/98 9:25 am

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Jane G. Olsen	9/16/98	10:00				Yes No
						Yes No
			Received for Laboratory by: Diane Ellmore	9/17/98	9:15 am	Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Complete per Gary Stanczuk DE 9/17/98

Samples placed in storage ID 1 & 3 DE 9/17/98 9:45 am

Revision No. 1
Created: September 23, 199

CompuChem Receiving Log

Client: Chemplex/CPG
Order #: 33X25
Project: PRA 249
Quote #: 98-[illegible]
Account #: 50113

Received on: 9/17/98 # of COC's: 1
Delivered by: Federal Express
Freight #: 8013094246332
Subcontract Y / N
TAT: Verbal 48/72 HR Hardcopy 10 day

PPS / RFA # 241 Page 1 of 1
Lab Instructions: RCRA 1081 + CN / TCL
List - reg analyses / TCL list on all TCLP samples / ~~TCLP list analyzed on soils~~ 9/17
Pick QC

	SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	[illegible]
1	24901	1	[illegible]-1-4-6	91[illegible]	1-4oz/2-8oz	RCRA 1081 CN/418.1 VOC/SV/Pest/PCB/Herb	4005, 1357, [illegible]	[illegible]	9/15/98	50	NA
2	↓	2	[illegible]	[illegible]	↓	↓	↓	↓	↓	↓	↓
3	↓	3	[illegible]	[illegible]	↓	↓	↓	↓	↓	↓	↓
4	24902	4	[illegible]-1	91[illegible]-1	1-4oz/2-4oz	[illegible]	1139, 349, 1083, 4005, 2[illegible]	[illegible]	↓	↓	↓
5	24903	5	[illegible]	91625[illegible]	4-40ml vials	[illegible]	1356	1	↓	WA	↓
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

9/17/98

Logged In By: [illegible]
Order Entered By: [illegible]
Cyanide samples checked for sulfide and chlorine Y / NA
Received in good condition Y / N
Holding Blank(s) Counter / Page / CCN's / Temperature(s) [illegible] °C

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-SB-1-4-6

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910246

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/17/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 09/19/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	3.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	0.88	JP
72-54-8	4,4'-DDD	7.6	U
72-55-9	4,4'-DDE	1.6	JP
50-29-3	4,4'-DDT	11	U
60-57-1	Dieldrin	0.36	JP
959-98-8	Endosulfan I	3.9	U
33213-65-9	Endosulfan II	0.98	J
1031-07-8	Endosulfan sulfate	7.6	U
72-20-8	Endrin	7.6	U
7421-93-4	Endrin Aldehyde	7.6	U
76-44-8	Heptachlor	0.67	JP
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	150	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	100	U
11096-82-5	Aroclor-1260	150	U
53494-70-5	Endrin Ketone	19	U
12789-03-6	Technical Chlordane	190	U
465-73-6	Isodrin	1.9	U