

NEW YORK STATE SUPERFUND CONTRACT IMMEDIATE INVESTIGATION WORK ASSIGNMENT

VOLUME IV APPENDIX C (Continued)

Atlas Graphics
Site No. 1-30-043B
Work Assignment No. D002676-20

DATE: March 1999



Prepared for:

**New York State
Department of
Environmental Conservation**

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Division of Environmental Remediation
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APPENDIX C

Analytical Data Summary Sheets (continued)



Analytical Data Package For

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

REGION 0

CONTRACT #: C003180

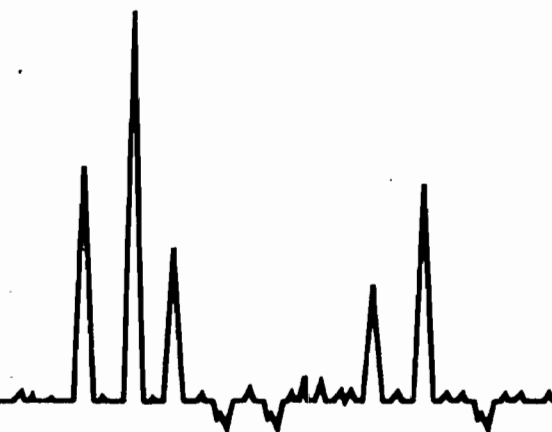
CASE #: RA096 SDG #: 0127

Soil Samples

RECEIVED: January 27, 1997

SAMPLE DATA SUMMARY PACKAGE

JANUARY 1997



H2M LABS, INC.

Environmental Testing Laboratories

575 Broad Hollow Road, Melville, N.Y. 11747

SAMPLE DATA SUMMARY PACKAGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

REGION 0

CONTRACT: C003180

CASE: RA096

SAMPLES RECEIVED: 1/27/97

0127

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1. NYS DEC SUMMARY FORMS

VOLATILE SAMPLE ANALYSIS SUMMARY

SDG: 0121

SAMPLE ID	MATRIX	PROT- OCOL	LEVEL	DIL. FACT.	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED
B60250	SOIL	CLP	LOW	1	1/27/97	1/27/97	1/28/97
B60251	SOIL	CLP	LOW	1	1/27/97	1/27/97	1/28/97
B60252	SOIL	CLP	LOW	1	1/27/97	1/27/97	1/28/97

S 0004

2. CHAIN OF CUSTODY DOCUMENTATION

3. SDG NARRATIVES

SDG NARRATIVE FOR VOLATILE ORGANICS

SAMPLES RECEIVED: 1/27/97

CONTRACT #: C003180

CASE #: RA096

SDG #: 0127

For Samples:

B60250

B60251

B60252

The above samples were analyzed according to the requirements of the NYSDEC ASP method 91-1 for the TCL volatile organic analytes.

No matrix spike/matrix spike duplicate was submitted with this SDG. All quality control and calibration requirements were met.

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 has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: February 10, 1997

*  *

Joann M. Slavin
Quality Assurance Manager

4. SAMPLE REPORTS
4.1 VOLATILES

H2M LABS, INC.

QUALIFIERS FOR REPORTING ORGANICS DATA

Value - If the result is a value greater than or equal to the quantification limit, report the value.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to

$$\frac{(330 \text{ U}) \times df}{D} \text{ where } D = \frac{100 - \% \text{ moisture}}{100}$$

and df = dilution factor

For example, at 24% moisture, $D = \frac{100 - 24}{100} = 0.76$

$$\frac{(330 \text{ U}) \times 10}{0.76} = 4300 \text{ U rounded to the appropriate number of significant figures}$$

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/l and a concentration of 3 ug/l is calculated, report as JJ. The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - 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 (see Form X). The lower of the two values is reported on Form I and flagged with a "P".

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory-defined flag, discussed below.

H2M LABS, INC.

- B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g., a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceeds 200 ug/l or the peak representing the two coeluting isomers on that GC column exceeds 400 ug/l. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceeds 400 ug/l.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - Other specific flags may be required to properly define the results. If used, they must be fully described, and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required, use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The Laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60250

Lab Name: H2M LABS INC Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0127
 Matrix: (soil/water) SOIL Lab Sample ID: 9702421
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05502.D
 Level: (low/med) LOW Date Received: 01/27/97
 % Moisture: not dec. 2.5 Date Analyzed: 01/28/97
 GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		10	U
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	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		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
1330-20-7	Xylene (total)		10	U

S 0014

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60250

Lab Name: H2M LABS INC Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0127
Matrix: (soil/water) SOIL Lab Sample ID: 9702421
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05502.D
Level: (low/med) LOW Date Received: 01/27/97
% Moisture: not dec. 2.5 Date Analyzed: 01/28/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60251

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0127

Matrix: (soil/water) SOIL Lab Sample ID: 9702422

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05503.D

Level: (low/med) LOW Date Received: 01/27/97

% Moisture: not dec. 4.8 Date Analyzed: 01/28/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		11	U
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	U
67-64-1	Acetone		11	U
75-15-0	Carbon Disulfide		11	U
75-35-4	1,1-Dichloroethene		11	U
75-34-4	1,1-Dichloroethane		11	U
540-59-0	1,2-Dichloroethene (total)		11	U
67-66-3	Chloroform		11	U
107-06-2	1,2-Dichloroethane		11	U
78-93-3	2-Butanone		11	U
71-55-6	1,1,1-Trichloroethane		11	U
56-23-5	Carbon Tetrachloride		11	U
75-27-4	Bromodichloromethane		11	U
78-87-5	1,2-Dichloropropane		11	U
10061-01-5	cis-1,3-Dichloropropene		11	U
79-01-6	Trichloroethene		11	U
71-43-2	Benzene		11	U
124-48-1	Dibromochloromethane		11	U
10061-02-6	trans-1,3-Dichloropropene		11	U
79-00-5	1,1,2-Trichloroethane		11	U
75-25-2	Bromoform		11	U
108-10-1	4-Methyl-2-Pentanone		11	U
591-78-6	2-Hexanone		11	U
127-18-4	Tetrachloroethene		11	U
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
1330-20-7	Xylene (total)		11	U

S 0016

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60251

Lab Name: H2M LABS INC Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0127
Matrix: (soil/water) SOIL Lab Sample ID: 9702422
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05503.D
Level: (low/med) LOW Date Received: 01/27/97
% Moisture: not dec. 4.8 Date Analyzed: 01/28/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q
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S 0017

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60252

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0127

Matrix: (soil/water) SOIL Lab Sample ID: 9702423

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05555.D

Level: (low/med) LOW Date Received: 01/27/97

% Moisture: not dec. 4.2 Date Analyzed: 01/31/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane		10	U
75-09-2	Methylene Chloride		2	JB
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		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
1330-20-7	Xylene (total)		10	U

S 0018

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60252

Lab Name: H2M LABS INC Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0127
Matrix: (soil/water) SOIL Lab Sample ID: 9702423
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05555.D
Level: (low/med) LOW Date Received: 01/27/97
% Moisture: not dec. 4.2 Date Analyzed: 01/31/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS: ug/L or ug/Kg UG/KG
3/10/17

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q
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S 0019

5. SURROGATE SPIKE ANALYSIS RESULTS
5.1 VOLATILES

S 0020

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS INC Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0127
Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	TOT OUT
01	VLK01	105	101	101	0
02	B60250	112	99	104	0
03	B60251	110	99	102	0
04	VLK02	104	99	102	0
05	B60252	107	99	102	0

SMC1 (DCE)	=	1,2-Dichloroethane-d4	QC LIMITS (70-121)
SMC2 (TOL)	=	Toluene-d8	(84-138)
SMC3 (BFB)	=	Bromofluorobenzene	(59-113)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring Compound diluted out

6. **BLANK SUMMARY DATA AND RESULTS**
6.1 VOLATILES

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBK01

Lab Name: H2M LABS INC Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0127
Lab File ID: P05497.D Lab Sample ID: VBK28
Date Analyzed: 01/28/97 Time Analyzed: 11:03
GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) Y
Instrument ID: H5970-3

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	B60250	9702421	P05502.D	14:47
02	B60251	9702422	P05503.D	15:18

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0127

Matrix: (soil/water) SOIL Lab Sample ID: VBLK28

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05497.D

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

% Moisture: not dec. 0 Date Analyzed: 01/28/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	10	U	
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	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-4	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
79-01-6	Trichloroethene	10	U	
71-43-2	Benzene	10	U	
124-48-1	Dibromochloromethane	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	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	
1330-20-7	Xylene (total)	10	U	

S 0024

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBK01

Lab Name: H2M LABS INC Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0127
Matrix: (soil/water) SOIL Lab Sample ID: VBK28
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05497.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. 0 Date Analyzed: 01/28/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

*1.12M
2/10/97*

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q
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S 0025

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBK02

Lab Name: H2M LABS INC Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0127
Lab File ID: P05554.D Lab Sample ID: VBK31
Date Analyzed: 01/31/97 Time Analyzed: 12:24
GC Column: RTX502 ID: 0.53 (mm) Heated Purge: (Y/N) Y
Instrument ID: H5970-3

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	B60252	9702423	P05555.D	13:22

COMMENTS:

S 0026

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK02

Lab Name: H2M LABS INC Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0127

Matrix: (soil/water) SOIL Lab Sample ID: VBK31

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05554.D

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

% Moisture: not dec. 0 Date Analyzed: 01/31/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	10	U	U
74-83-9	Bromomethane	10	U	U
75-01-4	Vinyl Chloride	10	U	U
75-00-3	Chloroethane	10	U	U
75-09-2	Methylene Chloride	2	J	J
67-64-1	Acetone	10	U	U
75-15-0	Carbon Disulfide	10	U	U
75-35-4	1,1-Dichloroethene	10	U	U
75-34-4	1,1-Dichloroethane	10	U	U
540-59-0	1,2-Dichloroethene (total)	10	U	U
67-66-3	Chloroform	10	U	U
107-06-2	1,2-Dichloroethane	10	U	U
78-93-3	2-Butanone	10	U	U
71-55-6	1,1,1-Trichloroethane	10	U	U
56-23-5	Carbon Tetrachloride	10	U	U
75-27-4	Bromodichloromethane	10	U	U
78-87-5	1,2-Dichloropropane	10	U	U
10061-01-5	cis-1,3-Dichloropropene	10	U	U
79-01-6	Trichloroethene	10	U	U
71-43-2	Benzene	10	U	U
124-48-1	Dibromochloromethane	10	U	U
10061-02-6	trans-1,3-Dichloropropene	10	U	U
79-00-5	1,1,2-Trichloroethane	10	U	U
75-25-2	Bromoform	10	U	U
108-10-1	4-Methyl-2-Pentanone	10	U	U
591-78-6	2-Hexanone	10	U	U
127-18-4	Tetrachloroethene	10	U	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U	U
108-88-3	Toluene	10	U	U
108-90-7	Chlorobenzene	10	U	U
100-41-4	Ethylbenzene	10	U	U
100-42-5	Styrene	10	U	U
1330-20-7	Xylene (total)	10	U	U

S 0027

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: H2M LABS INC Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0127
Matrix: (soil/water) SOIL Lab Sample ID: VBLK31
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05554.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. 0 Date Analyzed: 01/31/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Scil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q
---------	----------	----	------------	---

S 0028

7. INTERNAL STANDARD AREA DATA
7.1 VOLATILES

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0127
 Lab File ID (Standard): P05496.D Date Analyzed: 01/28/97
 Instrument ID: H5970-3 Time Analyzed: 10:10
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR STD	105130	10.84	366061	12.25	285598	17.53
UPPER LIMIT	210260	10.34	732122	11.75	571196	17.03
LOWER LIMIT	52565	11.34	183031	12.75	142799	18.03
EPA SAMPLE NO.						
01 VBLK01	101828	10.91	349216	12.33	283781	17.59
02 B60250	107258	10.98	351123	12.39	290954	17.65
03 B60251	98196	10.98	328507	12.40	276080	17.65

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

S 0030

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0127
 Lab File ID (Standard): P05553.D Date Analyzed: 01/31/97
 Instrument ID: H5970-3 Time Analyzed: 11:27
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	IS1(BCM)		IS2(DFB)		IS3(CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	96433	11.11	367787	12.52	311183	17.78
UPPER LIMIT	192866	10.61	735574	12.02	622366	17.28
LOWER LIMIT	48217	11.61	183894	13.02	155592	18.28
EPA SAMPLE NO.						
01 VBLK02	92950	11.08	337025	12.49	289087	17.77
02 B60252	93919	11.08	340823	12.50	294807	17.76

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

S 0031

EXTERNAL CHAIN OF CUSTODY

Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, N.Y. 11747-5076

575 Broad Hollow Road, Melville, N.Y. 11747-5076

(518) 894-3040

FAX: 516-694-4122

[illegible]

ORIGINAL COPY

S 0006

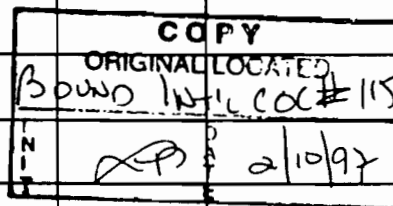
INTERNAL CHAIN OF CUSTODY

CLIENT: NDEC DELIVERABLES: PC-70 TURN AROUND TIME StandSDG #: 0127CASE #: RAD96MATRIX: SOpH CHECK Y or N (Y)

REMARKS: _____

RECEIVED BY: TASSIGNATURE: [Signature]DATE 1-27-97 TIME: 17:05

CLIENT LD.	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
¹ B60250	9702421	1-27-97	A	1	PATCL, TS
² B60251	↓ 422	↓	↓	↓	↓ ↓
³ B60252	↓ 423	↓	↓	↓	↓ ↓
⁴					
⁵					
⁶					
⁷					
⁸					
⁹					
¹⁰					
¹¹					
¹²					
¹³					
¹⁴					
¹⁵					
¹⁶					
¹⁷					
¹⁸					
¹⁹					
²⁰					



P 0040

S 0007

[illegible]

S 0008

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME <u>H2M LABS INC</u>	CITY/STATE <u>MELVILLE NY</u>	
CASE NO. <u>BA096</u>	SDG NO. <u>0121</u>	SDG NOS. TO FOLLOW _____
CONTRACT NO. <u>C003180</u>	ASP DATE <u>9/93 Rev</u>	SAS NO. _____

All documents delivered in the complete SDG file must be original documents where possible. (REFERENCE EXHIBIT B, SECTION II AND III.)

	PAGE NOS.	FROM	TO	CHECK	LAB	NYSDEC
1. <u>Inventory Sheet</u> (Form DC-2) (Do not number)					✓	
2. <u>SDG Case Narrative</u>		A0006	-		✓	
3. <u>Contract Lab Sample Information Sheet</u> (CLSIS)		A0008	A0017		✓	
4. <u>Volatiles Data</u>						
a. <u>QC Summary</u>						
Surrogate Percent Recovery Summary (Form II-CLP-VOA)		V0003	-		✓	
Lab Control Sample Recovery (Form III-CLP-VOA)		V0004	V0005		✓	
Method Blank Summary (Form IV-CLP-VOA)		V0006	V0007		✓	
GC/MS Instrument Performance Check (Form V-CLP-VOA)		V0008	V0010		✓	
Internal Standard Area and RT Summary (Form VIII-CLP-VOA)		V0011	V0012		✓	
b. <u>Sample Data</u>						
TCL Results (Form I-CLP-VOA)		V0017	V0016		✓	
Tentatively Identified Compounds (Form I-CLP-VOA-TIC)					✓	
Reconstructed total ion chromatograms (RIC) for each sample					✓	
For each sample:						
Raw spectra and background-subtracted mass spectra of target compounds identified					✓	
Quantitation reports					✓	
Mass spectra of all reported TICs with three best library matches					✓	
c. <u>Standards Data</u> (All Instruments)						
Initial Calibration Data (Form VI-CLP-VOA)		V0082	-		✓	
RICs and Quant Reports for all Standards		V0083	V0091		✓	
Continuing Calibration (Form VII-CLP-VOA)		V0098	V0102		✓	
RICs and Quant Reports for all Standards		V0099	V0105		✓	
d. <u>Raw QC Data</u>						
BFB		V0106	V0109		✓	
Blank Data		V0110	V0122		✓	
Matrix Spike Blank Data		V0123	V0131		✓	
Matrix Spike Data		V0132	V0134		✓	
Matrix Spike Duplicate Data		V0135	V0137		✓	
5. <u>Semivolatiles Data</u>						
a. <u>QC Summary</u>						
Surrogate Percent Recovery Summary (Form II-CLP-SV)						
MS/MSD Summary (Form III-CLP-SV)						
Method Blank Summary (Form IV-CLP-SV)						
GC/MS Instrument Performance Check (Form V-CLP-SV)						
Internal Standard Area and RT Summary (Form VIII-B-CLP-SV and Form VIII-C-CLP-SV)						

FORM DC-2-ORG-1

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. RA0916 SDG NO. 0121 SDG NOS. TO FOLLOW _____ SAS NO. _____

	PAGE NOS.		CHECK	
	FROM	TO	LAB	NYSDEC
5. Semivolatiles Data (cont.)				
b. Sample Data				
TCL Results (Form I-CLP-SV)	_____	_____	_____	_____
Tentatively Identified Compounds (Form I-CLP-SV-TIC)	_____	_____	_____	_____
Reconstructed total ion chromatograms (RIC)	_____	_____	_____	_____
for each sample	_____	_____	_____	_____
For each sample:	_____	_____	_____	_____
Raw spectra and background-subtracted	_____	_____	_____	_____
mass spectra of target compounds identified	_____	_____	_____	_____
Quantitation reports	_____	_____	_____	_____
Mass spectra of all reported TICs with three	_____	_____	_____	_____
best library matches	_____	_____	_____	_____
GPC chromatograms (if GPC performed)	_____	_____	_____	_____
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI-CLP-SV)	_____	_____	_____	_____
RICs and Quant Reports for all Standards	_____	_____	_____	_____
Continuing Calibration (Form VII-CLP-SV)	_____	_____	_____	_____
RICs and Quant Reports for all Standards	_____	_____	_____	_____
d. QC Data				
DFTPP	_____	_____	_____	_____
Blank Data	_____	_____	_____	_____
Matrix Spike Blank Data	_____	_____	_____	_____
Matrix Spike Data	_____	_____	_____	_____
Matrix Spike Duplicate Data	_____	_____	_____	_____
6. Pesticides				
a. QC Summary				
Surrogate Percent Recovery Summary	_____	_____	_____	_____
(Form II-CLP-PEST)	_____	_____	_____	_____
MS/MSD Summary (Form III-CLP-PEST)	_____	_____	_____	_____
Method Blank Summary (Form IV-CLP-PEST)	_____	_____	_____	_____
B. Sample Data				
TCL Results (Form I-CLP-PEST)	_____	_____	_____	_____
Chromatograms (Primary Column)	_____	_____	_____	_____
Chromatograms from second GC column confirmation	_____	_____	_____	_____
GC Integration report or data system printout and	_____	_____	_____	_____
calibration plots	_____	_____	_____	_____
Manual work sheets	_____	_____	_____	_____
UV traces from GPC (if available)	_____	_____	_____	_____
For pesticides/Aroclors confirmed by GC/MS copies	_____	_____	_____	_____
of raw spectra and copies of background-subtracted	_____	_____	_____	_____
mass spectra of target compounds (samples & standards)	_____	_____	_____	_____

FORM DC-2-ORG-2

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. <u>RA096</u>	SDG NO. <u>0121</u>	SDG NOS TO FOLLOW _____	SAS NO _____
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	PAGE NOS.		CHECK	
	FROM	TO	LAB	NYSDEC
6. Pesticides Data (cont.)				
c. Standards Data				
Initial Calibration of Single Component Analytes (Form VI-CLP-PEST-1 and PEST-2)	_____	_____	_____	_____
Initial Calibration of Multicomponent Analytes (Form VI-CLP-PEST-3)	_____	_____	_____	_____
Analyte Resolution Summary (Form VI-CLP-PEST-4)	_____	_____	_____	_____
Performance Evaluation Mixture (Form VI-CLP-PEST-5)	_____	_____	_____	_____
Individual Standard Mixture A (Form VI-CLP-PEST-6)	_____	_____	_____	_____
Individual Standard Mixture B (Form VI-CLP-PEST-7)	_____	_____	_____	_____
Calibration Verification Summary (Form VII-CLP-PEST-1)	_____	_____	_____	_____
Calibration Verification Summary (Form VII-CLP-PEST-2)	_____	_____	_____	_____
Analytical Sequence (Form VIII-CLP-PEST)	_____	_____	_____	_____
Florisil Cartridge Check (Form IX-CLP-PEST-1)	_____	_____	_____	_____
Pesticide GPC Calibration (Form IX-CLP-PEST-2)	_____	_____	_____	_____
Pesticides Identification Summary for Single Component Analytes (Form X-CLP-PEST-1)	_____	_____	_____	_____
Pesticides Identification Summary for Single Multicomponent Analytes (Form X-CLP-PEST-2)	_____	_____	_____	_____
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights	_____	_____	_____	_____
d. Raw QC Data				
Blank Data	_____	_____	_____	_____
Matrix Spike Blank Data	_____	_____	_____	_____
Matrix Spike Data	_____	_____	_____	_____
Matrix Spike Duplicate Data	_____	_____	_____	_____
Raw GPC Data	_____	_____	_____	_____
Raw Florisil Data	_____	_____	_____	_____
7. Miscellaneous Data				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	<u>V0140</u>	<u>V0149</u>	<u>✓</u>	_____
Internal sample and sample extract transfer chain-of-custody records	_____	_____	_____	_____
Screening records	_____	_____	_____	_____
All instrument output, including strip charts from screening activities (describe or list)	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

FORM DC-2-ORG-3

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. <u>RA096</u>	SDG NO. <u>0121</u>	SDG NOS. TO FOLLOW _____	SAS NO. _____
-----------------------	---------------------	--------------------------	---------------

PAGE NOS.		CHECK	
FROM	TO	LAB	NYSDEC

8. NYSDEC Shipping/Receiving Documents

Airbills (No. of shipments _____)	<u>NA</u>	<u>-</u>	<u>✓</u>	
Chain-of-Custody Records	<u>A0019</u>	<u>A0021</u>	<u>✓</u>	
Sample Tags	<u>NA</u>	<u>-</u>	<u>✓</u>	
Sample Log-In Sheet (Lab & PC-1)	<u>VO164</u>	<u>-</u>	<u>✓</u>	
SDG Cover Sheet	<u>VO165</u>	<u>-</u>	<u>✓</u>	
Miscellaneous Shipping/Receiving Records (describe or list)				
<u>ORIG EXT'L COC + CLSIS</u>	<u>VO153</u>	<u>VO160A</u>	<u>✓</u>	

9. Internal Lab Sample Transfer Records and Tracking Sheets

(describe or list)				
<u>ORIG INT'L COC</u>	<u>VO167</u>	<u>VO168</u>	<u>✓</u>	

10. Other Records (describe or list)

Telephone Communication Log				
<u>NYSDEC Summary Pages</u>	<u>A0003</u>	<u>A0004</u>	<u>✓</u>	
<u>SAMPLE DATA SUMMARY PGS (SDSP)</u>	<u>S0001</u>	<u>S0008</u>	<u>✓</u>	

11. Comments: PAGES NOT LISTED ARE DIVIDERS. PACKAGE IS PAGINATION
AS FOLLOWS: INTER = 1, VEA + CSF = V, SDSP = S

Completed by	(Signature)	(Printed Name/Title)	(Date)
	<u>Noranne I. Suager</u>	<u>Noranne I. Suager</u>	<u>2-10-97</u>

Verified by	(Signature)	(Printed Name/Title)	(Date)
	<u>Lynn Danicue</u>	<u>LYNN DANICUE / PROJECT COORDINATOR</u>	<u>2/10/97</u>

Audited by	(Signature)	(Printed Name/Title)	(Date)
	_____	_____	_____

H2M LABS, INC.

An Employee-Owned Company

575 Broad Hollow Road, Melville, NY 11747-5076
(516) 694-3040 • FAX: 516-420-8436

February 10, 1997

Mr. Joseph Jones
NYSDEC Region 0
50 Wolf Road
Albany, NY 12233-7010

Re: Contract: C003180
Case No.: RA096
SDG No.: 0121, 0127

Dear Mr. Jones,

Enclosed please find copies of the analytical data and summary packages for the soil samples received at our laboratory on January 21 and 27, 1997 (SDGs 0121 and 0127, respectively). The samples were analyzed volatile organics, in accordance with the NYSDEC ASP protocol (9/93 revision).

The original copy of the report has been forwarded to Mr. Jack Ryan of the Albany Office.

Please contact me, at anytime, if you have any questions.

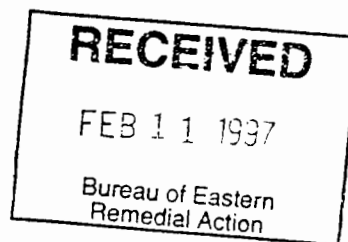
Very truly yours,



Lynn T. Daniello
Project Coordinator

Enclosures

c:\windoc\declet97.doc



Analytical Data Package For

**NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
REGION 1**

CONTRACT #: C003180

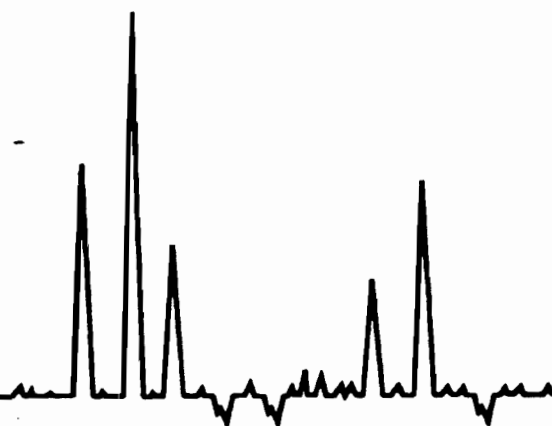
CASE #: RA096 SDG #: 0121

SOIL SAMPLES

RECEIVED: 1/23/97

SAMPLE DATA SUMMARY PACKAGE

JANUARY 1997



H2M LABS, INC.

Environmental Testing Laboratories

575 Broad Hollow Road, Melville, N.Y. 11747

SAMPLE DATA SUMMARY PACKAGE

TABLE OF CONTENTS

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
REGION 1

CONTRACT: C003180

CASE: RA096

SDG: 0121

LAB CODE: 10478

SAMPLE RECEIVED: 1/23/97

1. NYS DEC SUMMARY PAGES
2. CHAIN OF CUSTODY DOCUMENTATION
3. CASE NARRATIVE
4. SAMPLE REPORTS
 - 4.1 VOLATILES
5. SURROGATE SPIKE ANALYSIS RESULTS
 - 5.1 VOLATILES
6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY
 - 6.1 VOLATILES
7. BLANK SUMMARY DATA AND RESULTS
 - 7.1 VOLATILES
8. INTERNAL STANDARD AREA DATA
 - 8.1 VOLATILES

H2M LABS, INC.

1. NYS DEC SUMMARY PAGES

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYS DEC

CONTRACT NO.: C003180

CASE NO.: RA096

SDG NO: 0121

SAMPLES RECEIVED: 1/23/97

[illegible]

* Check Appropriate Boxes

*CLP Non-CLP (Please indicate year of protocol) 1993 Rev

TCL/TAL, HSL,

VOLATILE SAMPLE ANALYSIS SUMMARY

SDG: 0121

SAMPLE ID	MATRIX	PROT- OCOL	LEVEL	DIL. FACT.	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED
B60250	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97
B60201MS	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97
B60201MSD	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97
B60202	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97
B60203	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97
B60204	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97
B60205	SOIL	CLP	LOW	1	1/21/97	1/23/97	2/5/97
B60206	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97
B60207	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97
B60208	SOIL	CLP	LC'N	1	1/21/97	1/23/97	1/24/97
B60209	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97
B60210	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97

Page 4 of 6

S 0004

2. CHAIN OF CUSTODY DOCUMENTATION

EXTERNAL CHAIN OF CUSTODY

0121

PROJECT NAME		PROJECT NO.		REFRIGERATOR		NOTES:	
RAO9C		Atlas Graphics		SAMPLE CONTAINER DESCRIPTION		Seal	
SAMPLERS: (Signature)/Client		J. G. Jones - NYSDIEC		TOTAL NO. OF CONTAINERS		COPY ORIGINAL LOCATED: 3000 CS DE CASE RAO9C SDELOZ1	
DELIVERABLES:		AS-70				N.T.S. A 2 10 97	
DATE	TIME	MATRIX	FIELD I.D.	ANALYSIS REQUESTED	LAB I.D. No.	REMARKS	
1/24/97	10:16	soil	BO0201	5-7'	9702015		
1/24/97	4:33	soil	BO0202	12-12'			
1/24/97	4:50	soil	BO0203	15-17'			
1/24/97	4:55	soil	BO0204	20-22'			
1/24/97	4:55	soil	BO0205	25-27'			
1/24/97	4:55	soil	BO0206	30-32'			
1/24/97	4:55	soil	BO0207	35-37'			
1/24/97	4:55	soil	BO0208	40-42'			
1/24/97	4:55	soil	BO0209	45-47'			
1/24/97	4:55	soil	BO0210	10-12'			
Relinquished by: (Signature)				Date	time	LABORATORY USE ONLY	
Relinquished by: (Signature)				1/23/97	10:15	COC Tape was:	
Relinquished by: (Signature)						1) Shipped or Hand Delivered ☒ 2) Ambient or Chilled ☒ 3) Received in Good Condition ☒ 4) Properly Preserved ☒ 5) Samples returned to lab. ☒ hours from Collection	
Relinquished by: (Signature)				Date	time	COC Record Present and Complete Upon Sample Rec'l. ☒ Y or N	
Relinquished by: (Signature)				Date	time	Discrepancies Between Sample Labels and COC Record Y or N ☒ Y or N	
Relinquished by: (Signature)				Date	time	Discrepancies Between Sample Labels and COC Record Y or N ☒ Y or N	

INTERNAL CHAIN OF CUSTODY

CLIENT: NDEC ^{TAT 1-24} DELIVERABLES: AS 70 AC 70 TURN AROUND TIME: Stand
 SDG #: 0121 CASE #: RA096 ⁽⁰¹⁻²⁴⁾ MATRIX: SD pH CHECK Y or N

REMARKS:

RECEIVED BY: TAT SIGNATURE: [Signature] DATE: 1-23-97 TIME: 10:25

CLIENT LD.	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1 TAT 1-23-97 2 B60201	9702015	1-21-97	A	1	PUTCL, TS
3 B60202	016				
4 B60203	017				
5 B60204	018				
6 B60205	019				
7 B60206	020				
8 B60207	021				
9 B60208	022				
10 B60209	023				
11 B60210	024				
12					
13					
14					
15					
16					
17					
18					
19					
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SDG #

STUDIES

H2M LABS, INC.

3. CASE NARRATIVE

H2M LABS, INC.

**SDG NARRATIVE FOR VOLATILES
CONTRACT C003180
CASE: RA096
SDG: 0121
SAMPLES RECEIVED: 1/23/97**

For Samples:	B60201 MS/MSD	B60206
	B60202	B60207
	B60203	B60208
	B60204	B60209
	B60205	B60210

The above samples were analyzed according to the requirements of the NYSDEC ASP method 91-1 for the TCL volatile organic analytes.

Sample B60205 was originally analyzed on January 24, 1997 but was unable to be reported due to a corrupt data file. The chromatogram and quant report are included. The sample was reanalyzed on February 5, 1997 and is reported.

All quality control and calibration requirements were met.

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 has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: February 10, 1997

*  *

Joann M. Slavin
Quality Assurance Manager

JMS\brf
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4. SAMPLE REPORTS
4.1 VOLATILES

H2M LABS, INC.

QUALIFIERS FOR REPORTING ORGANICS DATA

Value - If the result is a value greater than or equal to the quantification limit, report the value.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to

$$\frac{(330 \text{ U}) \times \text{df}}{D} \text{ where } D = \frac{100 - \% \text{ moisture}}{100}$$

and df = dilution factor

For example, at 24% moisture, $D = \frac{100 - 24}{100} = 0.76$

$$\frac{(330 \text{ U}) \times 10}{.76} = 4300 \text{ U rounded to the appropriate number of significant figures}$$

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/l and a concentration of 3 ug/l is calculated, report as JJ.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - 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 (see Form X). The lower of the two values is reported on Form I and flagged with a "P".

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory-defined flag, discussed below.

H2M LABS, INC.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g., a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceeds 200 ug/l or the peak representing the two coeluting isomers on that GC column exceeds 400 ug/l. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceeds 400 ug/l.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

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

X - Other specific flags may be required to properly define the results. If used, they must be fully described, and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required, use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The Laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60201

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: 9702015

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05464.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 4.4 Date Analyzed: 01/24/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		10	U
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	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		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
1330-20-7	Xylene (total)		10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60201

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: 9702015

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05464.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 4.4 Date Analyzed: 01/24/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000556-67-2	Cyclotetrasiloxane, octamethyl-	18.71	6	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60202

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: 9702016

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05467.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 3.3 Date Analyzed: 01/24/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		10	U
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	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		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
1330-20-7	Xylene (total)		10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60202

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: 9702016
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05467.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 3.3 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60203

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: 9702017

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05468.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 2.9 Date Analyzed: 01/24/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		10	U
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	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		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
1330-20-7	Xylene (total)		10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60203

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: 9702017
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05468.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 2.9 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60204

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: 9702018

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05469.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 3 Date Analyzed: 01/24/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	10	U	
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	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-4	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
79-01-6	Trichloroethene	10	U	
71-43-2	Benzene	10	U	
124-48-1	Dibromochloromethane	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	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	
1330-20-7	Xylene (total)	10	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60204

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: 9702018
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05469.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 3 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOL'ND	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60205

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: 9702019

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05560.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 4.1 Date Analyzed: 02/05/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane		10	U
75-09-2	Methylene Chloride		1	JB
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		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
1330-20-7	Xylene (total)		10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60205

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: 9702019
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05560.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 4.1 Date Analyzed: 02/05/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60206

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: 9702020

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05471.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 3.7 Date Analyzed: 01/24/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	10	U	
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	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-4	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
79-01-6	Trichloroethene	10	U	
71-43-2	Benzene	10	U	
124-48-1	Dibromochloromethane	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	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	
1330-20-7	Xylene (total)	10	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60206

Lab Name: H2M LABS INC.

Lab Code: 10478

Matrix: (soil/water) SOIL

Sample wt/vol: 5.0

Level: (low/med) LOW

% Moisture: not dec. 3.7

GC Column: RTX502. ID: 0.53 (mm)

Soil Extract Volume: 1 (uL)

Contract: C003180

SAS No.:

SDG No.: 0121

Lab Sample ID: 9702020

Lab File ID: P05471.D

Date Received: 01/23/97

Date Analyzed: 01/24/97

Dilution Factor: 1.0

Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg)

UG/KG

Number TICs found: 0

CAS NO. COMPOUND

RT EST. CONC. Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60207

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS no.: _____ SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: 9702021

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05472.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 3.7 Date Analyzed: 01/24/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		10	U
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	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		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
1330-20-7	Xylene (total)		10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60207

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: 9702021
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05472.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 3.7 Date Analyzed: 01/24/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60208

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: 9702022

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05473.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 3.7 Date Analyzed: 01/24/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		10	U
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	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		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
1330-20-7	Xylene (total)		10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60208

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: 9702022
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05473.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 3.7 Date Analyzed: 01/24/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60209

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: 9702023

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05474.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 6.7 Date Analyzed: 01/24/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		11	U
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	U
67-64-1	Acetone		11	U
75-15-0	Carbon Disulfide		11	U
75-35-4	1,1-Dichloroethene		11	U
75-34-4	1,1-Dichloroethane		11	U
540-59-0	1,2-Dichloroethene (total)		11	U
67-66-3	Chloroform		11	U
107-06-2	1,2-Dichloroethane		11	U
78-93-3	2-Butanone		11	U
71-55-6	1,1,1-Trichloroethane		11	U
56-23-5	Carbon Tetrachloride		11	U
75-27-4	Bromodichloromethane		11	U
78-87-5	1,2-Dichloropropane		11	U
10061-01-5	cis-1,3-Dichloropropene		11	U
79-01-6	Trichloroethene		11	U
71-43-2	Benzene		11	U
124-48-1	Dibromochloromethane		11	U
10061-02-6	trans-1,3-Dichloropropene		11	U
79-00-5	1,1,2-Trichloroethane		11	U
75-25-2	Bromoform		11	U
108-10-1	4-Methyl-2-Pentanone		11	U
591-78-6	2-Hexanone		11	U
127-18-4	Tetrachloroethene		11	U
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
1330-20-7	Xylene (total)		11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60209

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: 9702023
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05474.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 6.7 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60210

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: 9702024
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05475.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 2.4 Date Analyzed: 01/24/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	10	U	
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	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-4	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
79-01-6	Trichloroethene	10	U	
71-43-2	Benzene	10	U	
124-48-1	Dibromochloromethane	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	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	
1330-20-7	Xylene (total)	10	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60210

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: 9702024
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05475.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 2.4 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q
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5. SURROGATE SPIKE ANALYSIS RESULTS

5.1 VOLATILES

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	TOT OUT
01	VBLK01	105	98	99	0
02	MSB24	108	97	101	0
03	B60201	106	97	102	0
04	B60201MS	111	98	104	0
05	B60201MSD	110	97	101	0
06	B60202	110	97	105	0
07	B60203	111	98	104	0
08	B60204	110	97	103	0
09	B60206	107	99	99	0
10	B60207	111	95	101	0
11	B60208	116	95	104	0
12	B60209	112	95	103	0
13	B60210	112	96	103	0
14	VBLK02	105	101	100	0
15	B60205	106	101	102	0

SMC1 (DCE)	=	1,2-Dichloroethane-d4	QC LIMITS (70-121)
SMC2 (TOL)	=	Toluene-d8	(84-138)
SMC3 (BFB)	=	Bromofluorobenzene	(59-113)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring Compound diluted out

6. MATRIX SPIKE / MATRIX SPIKE DUPLICATE SUMMARY
6.1 VOLATILES

3A
SOIL MATRIX SPIKE BLANK RECOVERY

Lab Name: H2M LABS, INC

Contract: NYSDEC

Lab Code: 10478

Case No.: RA096

SDG No.: ##

Matrix Spike - EPA Sample No.: MSB2

SAS No.:

COMPOUND	SPIKE ADDED UG/KG	MS CONCENTRATION UG/KG	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	42	84	(61-145)
Trichloroethene	50	45	90	(71-120)
Benzene	50	45	90	(76-127)
Toluene	50	43	86	(76-125)
Chlorobenzene	50	44	88	(75-130)

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 10 outside limits

Comments: _____

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
 Matrix Spike - EPA Sample No.: B60201 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	52	0.0	44	85	59 - 172
Trichloroethene	52	0.0	47	90	62 - 137
Benzene	52	0.0	47	90	66 - 142
Toluene	52	0.0	46	88	59 - 139
Chlorobenzene	52	0.0	46	88	60 - 133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
1,1-Dichloroethene	52	40	77	10	22	59 - 172
Trichloroethene	52	44	85	6	24	62 - 137
Benzene	52	43	83	8	21	66 - 142
Toluene	52	42	81	8	21	59 - 139
Chlorobenzene	52	43	83	6	21	60 - 133

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

H2M LABS, INC.

7. BLANK SUMMARY DATA AND RESULTS
7.1 VOLATILES

S 0039

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
 Lab File ID: P05462.D Lab Sample ID: VBLK24
 Date Analyzed: 01/24/97 Time Analyzed: 10:59
 GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) Y
 Instrument ID: H5970-3

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MSB24	MSB24	P05463.D	11:30
02	B60201	9702015	P05464.D	12:07
03	B60201MS	9702015MS	P05465.D	12:38
04	B60201MSD	9702015MSD	P05466.D	13:09
05	B60202	9702016	P05467.D	13:40
06	B60203	9702017	P05468.D	14:10
07	B60204	9702018	P05469.D	14:41
08	B60206	9702020	P05471.D	15:43
09	B60207	9702021	P05472.D	16:14
10	B60208	9702022	P05473.D	16:45
11	B60209	9702023	P05474.D	17:16
12	B60210	9702024	P05475.D	17:47

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK01

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: VBK24

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05462.D

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

% Moisture: not dec. 0 Date Analyzed: 01/24/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	10	U	
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	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-4	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
79-01-6	Trichloroethene	10	U	
71-43-2	Benzene	10	U	
124-48-1	Dibromochloromethane	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	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	
1330-20-7	Xylene (total)	10	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: VBLK24

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05462.D

Level: (low/med) LOW

Date Received:

% Moisture: not dec. 0

Date Analyzed: 01/24/97

GC Column: RTX502 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 1 (uL)

Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q
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4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBK02

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0121
Lab File ID: P05559.D Lab Sample ID: VBK5
Date Analyzed: 02/05/97 Time Analyzed: 13:36
GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) Y
Instrument ID: H5970-3

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	B60205	9702019	P05560.D	14:15

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLBK02

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
 Matrix: (soil/water) SOIL Lab Sample ID: VLBK5
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05559.D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. 0 Date Analyzed: 02/05/97
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane		10	U
75-09-2	Methylene Chloride		2	J
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
71-43-2	Benzene		10	U
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		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
1330-20-7	Xylene (total)		10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBK02

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: VBK5
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05559.D
Level: (low/med) LOW Date Received:
% Moisture: not dec. 0 Date Analyzed: 02/05/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q
---------	----------	----	------------	---

8. INTERNAL STANDARD AREA DATA
8.1 VOLATILES

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
 Lab File ID (Standard): P05461.D Date Analyzed: 01/24/97
 Instrument ID: H5970-3 Time Analyzed: 10:19
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	IS1(BCM)		IS2(DFB)		IS3(CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	109635	11.27	392211	12.68	313283	17.96
UPPER LIMIT	219270	10.77	784422	12.18	626566	17.46
LOWER LIMIT	54818	11.77	196106	13.18	156642	18.46
EPA SAMPLE NO.						
01 VBLK01	115408	11.27	419490	12.69	342222	17.96
02 MSB24	104224	11.26	361170	12.66	298071	17.94
03 B60201	104264	11.25	377690	12.66	306665	17.95
04 B60201MS	111163	11.23	398281	12.65	323361	17.94
05 B60201MSD	110890	11.23	389106	12.64	320404	17.92
06 B60202	112925	11.22	384069	12.63	313308	17.93
07 B60203	97905	11.23	333988	12.64	275780	17.92
08 B60204	105098	11.23	365332	12.65	300127	17.94
09 B60206	91235	11.23	339060	12.64	273376	17.93
10 B60207	95043	11.23	327037	12.64	275102	17.93
11 B60208	79254	11.25	281408	12.66	238511	17.95
12 B60209	93603	11.24	324434	12.65	267940	17.94
13 B60210	101427	11.24	339721	12.64	281026	17.94

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAG No.: SDG No.: 0121
 Lab File ID (Standard): P05558.D Date Analyzed: 02/05/97
 Instrument ID: H5970-3 Time Analyzed: 12:13
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	IS1(BCM)		IS2(DFB)		IS3(CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	86431	11.08	323663	12.49	276170	17.76
UPPER LIMIT	172862	10.58	647326	11.99	552340	17.26
LOWER LIMIT	43216	11.58	161832	12.99	138085	18.26
EPA SAMPLE NO.						
01 VBLK02	86247	11.08	320778	12.50	275417	17.76
02 B60205	92704	11.09	341281	12.49	295649	17.76

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits



Intertek Testing Services Environmental Laboratories

March 24, 1998

LAWLER, MATUSKY &
SKELLY ENGINEERS LLP

MAR 25 1998

Ms. Maria Heincz
Lawler, Matusky and Skelly Engineers
One Blue Hill Plaza
Pearl River, NY 10965

For Hazardous Waste Section

Re: LMS Project Name: NYSDEC Atlas Graphics
LMS Project No.: 650-201
ITS Project No. 95212; Case 95212; SDG 68391

Dear Ms. Heincz:

Enclosed are the analytical results for samples received intact by ITS Environmental Laboratories (Burlington) on February 25, 1998. Laboratory numbers and quality control samples were assigned as follows:

<u>Lab Id</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received on: 02/25/98 ETR No. 68391			
353046	AGHP1-60	02/24/98	Water
353047	AGHP1-70	02/24/98	Water
353048	AGHP1-80	02/24/98	Water
343049	TB	02/18/98	Water

For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package". A colored sheet of paper entitled "Sample Preparation Package" has been used to explicitly mark the location of these documents.

If there are any questions regarding this submittal, please contact Christopher A. Ouellette at (802) 655-1203.

Sincerely,

Deborah A. Loring
Laboratory Manager

DAL/cga
Enclosure

Intertek Testing Services NA Inc.
55 South Park Drive Colchester, VT 05446
Telephone (802) 655-1203 Fax (802) 655-1248

NARRATIVE

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Report to:

Company: LM5 ENGINEERS

Address: One Blue Hill Plaza

Contact: Maria Heine

Phone: 914-735-8300

Fax: 914-735-7466

Contract/Quote #: NYSDEC Study

Invoice to

Company:

Address:

Contact:

Phone:

PO/ISO #:

ANALYSIS REQUESTED

Lab use only
Due Date:

Temp. of coolers when received (C°):

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name

Sampler's Signature

Proj. No.

Project Name

No / Type of Containers

650-201

Atlas Graphics

Matrix Date Time

C o m p

G r a b

Identifying Marks of Sample(s)

VOA

AG 1 Lt.

250 ml

P/O

Lab Sample ID (Lab Use Only)

W 10/10/98

X

AG HP1-60

3

3

W 11/15

X

AG HP1-70

3

3

W 11/15

X

AG HP1-80

3

3

W 11/15

X

AG HP1-80

3

3

W 11/15

X

AG HP1-80

3

3

W 11/15

X

AG HP1-80

3

3

W 11/15

X

AG HP1-80

3

3

W 11/15

X

AG HP1-80

3

3

W 11/15

X

AG HP1-80

3

3

Matrix

WW - Wastewater

W - Water

S - Soil

Solid

Liquid

A - Air

SL - Sludge

O - Oil

Container

VOA - 40 ml vial

AG - Amber / Or Glass 1 Liter

250 ml - Glass wide mouth

P/O - Plastic or other

SL - Sludge

O - Oil

ITS cannot accept verbal changes. Please Fax written changes to (802) 655-1248

Turn around time

Priority 1 or Standard

Priority 2 or 50% *

Priority 3 or 100% *

Priority 4 ERS (Dallas Only)

* Must Coordinate with Project Manager

Shipment For

Cash Complete

Yes

No

Relinquished by: (Signature)

Date: 2-24-98

Time: 1700

Received by: (Signature)

Date: 2-24-98

Time: 0915

Relinquished by: (Signature)

Date: 2-24-98

Time: 1700

Received by: (Signature)

Date: 2-24-98

Time: 0915

Remarks HCl preservative not requested. 40 ml vials rinsed with sample water before collection of samples. VOA samples not preserved. Client's delivery of samples constitutes acceptance of ITS Environmental Laboratories terms and conditions contained in the Price Schedule.

INTERNAL CHAIN OF CUSTODY

IF-00001

ITS ENVIRONMENTAL - BURLINGTON, VERMONT

ETR Number: 68391 Case: 95212
 Project Number: 95212 SDG Number: 68391
 Memo: Samples #'s 353046-50
 _____ placed in refrigerator
 by Sharon Miner on 2/25/98 11:00 (date/time).
 Signature

Date	Time	Sample #	Relinquished By	Received By	Purpose of Change of Custody
2/25/98	1105	353046-50	<u>Sharon Miner</u> Signature	<u>W. DeLise</u> Signature	down
2/25/98	1200	"	<u>W. DeLise</u> Signature	<u>Sharon Miner</u> Signature	change
2/27/98	1500	353046-044	<u>W. DeLise</u> Signature	<u>W. DeLise</u> Signature	analysis
2/27/98	1900	↓	<u>W. DeLise</u> Signature	<u>W. DeLise</u> Signature	storage
			<u>W. DeLise</u> Signature	<u>W. DeLise</u> Signature	
			<u>W. DeLise</u> Signature	<u>W. DeLise</u> Signature	
			<u>W. DeLise</u> Signature	<u>W. DeLise</u> Signature	
			<u>W. DeLise</u> Signature	<u>W. DeLise</u> Signature	
			<u>W. DeLise</u> Signature	<u>W. DeLise</u> Signature	
			<u>W. DeLise</u> Signature	<u>W. DeLise</u> Signature	
			<u>W. DeLise</u> Signature	<u>W. DeLise</u> Signature	
			<u>W. DeLise</u> Signature	<u>W. DeLise</u> Signature	
			<u>W. DeLise</u> Signature	<u>W. DeLise</u> Signature	
			<u>W. DeLise</u> Signature	<u>W. DeLise</u> Signature	
			<u>W. DeLise</u> Signature	<u>W. DeLise</u> Signature	

000004

SDG Case Narrative

LMS Project Name: NYSDEC Atlas Graphics
LMS Project No.: 650-201
ITS Project No. 95212; Case 95212; SDG 68391

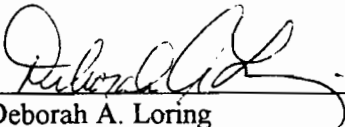
<u>Lab Id</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received on: 02/25/98 ETR No. 68391			
353046	AGHP1-60	02/24/98	Water
353047	AGHP1-70	02/24/98	Water
353048	AGHP1-80	02/24/98	Water
343049	TB	02/18/98	Water

The above referenced samples were analyzed for TCL VOCs by CLP Methods 95-1. These samples were analyzed in accordance to the NYSDEC Analytical Services Protocol (ASP), October 1995. Data reporting is in reference to Category A.

The volatile organic initial and continuing calibration requirements specified for this method were satisfied. Please note that surrogate recoveries were within quality control (QC) limits for all samples submitted in this sample delivery group. Additionally, the laboratory control sample analyzed in this SDG exhibited acceptable target analyte recoveries.

The laboratory performed preliminary volatile organic screening of samples in this sample delivery group. Preliminary screen analytical results for these samples are included on pages 000005 - 000008 of the data package.

"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 has been authorized by the Laboratory Manager, as verified by the following signature."


Deborah A. Loring
Laboratory Manager

LMS Atlas Graphics Volatile Screen Results

ITS Environmental Testing Services, Colchester VT

ETR 68391

Sample Name AGHP1-60

Lab # 353046

Date Sampled 02/24/98

Date Analyzed 02/25/98

Time Analyzed 1532

Instrument HP767

Analyst WRD

RESULTS

Compound	Conc. (ug/L)	Qualifier
Freon 113	1	U
MTBE	5	U
c-12 Dichloroethene	1	U
Chloroform	1	U
111-Trichloroethane	1	U
Carbon Tetrachloride	1	U
Benzene	1	U
Trichloroethene	8	
Bromodichloromethane	1	U
Toluene	1	U
112-Trichloroethane	1	U
Tetrachloroethene	1	U
Dibromochloromethane	1	U
Chlorobenzene	1	U
Ethylbenzene	1	U
m/p Xylene	1	U
o Xylene	1	U
Bromoform	1	U
m-Dichlorobenzene	1	U
p-Dichlorobenzene	1	U
o-Dichlorobenzene	1	U

QUALIFIER EXPLANATIONS

U= Not detected at or above reported concentration

DR= Diesel range hydrocarbon interference may be elevating the reported value

E= Detector signal exceeded range. Actual value may be higher.

000005

LMS Atlas Graphics Volatile Screen Results
ITS Environmental Testing Services, Colchester VT

ETR 68391
Sample Name AGHP1-70
Lab # 353047
Date Sampled 02/24/98
Date Analyzed 02/25/98
Time Analyzed 1549
Instrument HP767
Analyst WRD

RESULTS

Compound	Conc. (ug/L)	Qualifier
Freon 113	1	U
MTBE	5	U
c-12 Dichloroethene	1	U
Chloroform	1	U
111-Trichloroethane	1	U
Carbon Tetrachloride	1	U
Benzene	1	U
Trichloroethene	18	
Bromodichloromethane	1	U
Toluene	1	U
112-Trichloroethane	1	U
Tetrachloroethene	35	
Dibromochloromethane	1	U
Chlorobenzene	1	U
Ethylbenzene	1	U
m/p Xylene	1	U
o Xylene	1	U
Bromoform	1	U
m-Dichlorobenzene	1	U
p-Dichlorobenzene	1	U
o-Dichlorobenzene	1	U

QUALIFIER EXPLANATIONS

U= Not detected at or above reported concentration

000006

LMS Atlas Graphics Volatile Screen Results
ITS Environmental Testing Services, Colchester VT

ETR 68391
Sample Name AGHP1-80
Lab # 353048
Date Sampled 02/24/98
Date Analyzed 02/25/98
Time Analyzed 1605
Instrument HP767
Analyst WRD

RESULTS

Compound	Conc. (ug/L)	Qualifier
Freon 113	1	U
MTBE	5	U
c-12 Dichloroethene	1	U
Chloroform	1	U
111-Trichloroethane	1	U
Carbon Tetrachloride	1	U
Benzene	1	U
Trichloroethene	1	U
Bromodichloromethane	1	U
Toluene	1	U
112-Trichloroethane	1	U
Tetrachloroethene	1	U
Dibromochloromethane	1	U
Chlorobenzene	1	U
Ethylbenzene	1	U
m/p Xylene	1	U
o Xylene	1	U
Bromoform	1	U
m-Dichlorobenzene	1	U
p-Dichlorobenzene	1	U
o-Dichlorobenzene	1	U

QUALIFIER EXPLANATIONS

U= Not detected at or above reported concentration

000007

LMS Atlas Graphics Volatile Screen Results
ITS Environmental Testing Services, Colchester VT

ETR 68391
Sample Name TB
Lab # 353049
Date Sampled 02/18/98
Date Analyzed 02/25/98
Time Analyzed 1622
Instrument HP767
Analyst WRD

RESULTS

Compound	Conc. (ug/L)	Qualifier
Freon 113	1	U
MTBE	5	U
c-12 Dichloroethene	1	U
Chloroform	1	U
111-Trichloroethane	1	U
Carbon Tetrachloride	1	U
Benzene	1	U
Trichloroethene	1	U
Bromodichloromethane	1	U
Toluene	1	U
112-Trichloroethane	1	U
Tetrachloroethene	1	U
Dibromochloromethane	1	U
Chlorobenzene	1	U
Ethylbenzene	1	U
m/p Xylene	1	U
o Xylene	1	U
Bromoform	1	U
m-Dichlorobenzene	1	U
p-Dichlorobenzene	1	U
o-Dichlorobenzene	1	U

QUALIFIER EXPLANATIONS

U= Not detected at or above reported concentration

000008

To be included with all lab data and with each workplan

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

[illegible]

***Check Appropriate Boxes**

*CLP, Non-CLP (Please indicate year of protocol)

*HSL, Priority Pollutant

c/mydoc/nys sample id

000009

VOA ANALYSES

C/MYDOC/VOA

000010

VOA ORGANIC ANALYSES

[illegible]

000011

ANALYTICAL RESULTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AGHP1-60

Lab Name: ITS ENVIRONMENTAL

Contract: 95212

Lab Code: INCHVT

Case No.: 95212

SAS No.:

SDG No.: 68391

Matrix: (soil/water) WATER

Lab Sample ID: 353046

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V353046V

Level: (low/med) LOW

Date Received: 02/25/98

% Moisture: not dec. _____

Date Analyzed: 02/27/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3-----	Chloromethane	10	U
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	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	2	J
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	7	J
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
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	3	J
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
1330-20-7-----	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AGHP1-60

Lab Name: ITS ENVIRONMENTAL

Contract: 95212

Lab Code: INCHVT

Case No.: 95212

SAS No.:

SDG No.: 68391

Matrix: (soil/water) WATER

Lab Sample ID: 353046

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V353046V

Level: (low/med) LOW

Date Received: 02/25/98

% Moisture: not dec. _____

Date Analyzed: 02/27/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AGHP1-70

Lab Name: ITS ENVIRONMENTAL

Contract: 95212

Lab Code: INCHVT

Case No.: 95212

SAS No.:

SDG No.: 68391

Matrix: (soil/water) WATER

Lab Sample ID: 353047

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V353047V

Level: (low/med) LOW

Date Received: 02/25/98

% Moisture: not dec. _____

Date Analyzed: 02/27/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3-----	Chloromethane	10	U
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	U
67-64-1-----	Acetone	17	
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	14	
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
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	27	
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
1330-20-7-----	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AGHP1-70

Lab Name: ITS ENVIRONMENTAL

Contract: 95212

Lab Code: INCHVT

Case No.: 95212

SAS No.:

SDG No.: 68391

Matrix: (soil/water) WATER

Lab Sample ID: 353047

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V353047V

Level: (low/med) LOW

Date Received: 02/25/98

% Moisture: not dec. _____

Date Analyzed: 02/27/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AGHP1-80

Lab Name: ITS ENVIRONMENTAL

Contract: 95212

Lab Code: INCHVT

Case No.: 95212

SAS No.:

SDG No.: 68391

Matrix: (soil/water) WATER

Lab Sample ID: 353048

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V353048V

Level: (low/med) LOW

Date Received: 02/25/98

% Moisture: not dec. _____

Date Analyzed: 02/27/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3-----	Chloromethane	10	U
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	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	1	J
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	1	J
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	1	J
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
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	2	J
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
1330-20-7-----	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AGHP1-80

Lab Name: ITS ENVIRONMENTAL

Contract: 95212

Lab Code: INCHVT

Case No.: 95212

SAS No.:

SDG No.: 68391

Matrix: (soil/water) WATER

Lab Sample ID: 353048

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V353048V

Level: (low/med) LOW

Date Received: 02/25/98

% Moisture: not dec. _____

Date Analyzed: 02/27/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB

Lab Name: ITS ENVIRONMENTAL

Contract: 95212

Lab Code: INCHVT

Case No.: 95212

SAS No.:

SDG No.: 68391

Matrix: (soil/water) WATER

Lab Sample ID: 353049

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V353049V

Level: (low/med) LOW

Date Received: 02/25/98

% Moisture: not dec. _____

Date Analyzed: 02/27/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3-----	Chloromethane	10	U
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	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	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
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	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
1330-20-7-----	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB

Lab Name: ITS ENVIRONMENTAL

Contract: 95212

Lab Code: INCHVT

Case No.: 95212

SAS No.:

SDG No.: 68391

Matrix: (soil/water) WATER

Lab Sample ID: 353049

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V353049V

Level: (low/med) LOW

Date Received: 02/25/98

% Moisture: not dec. _____

Date Analyzed: 02/27/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: ITS ENVIRONMENTAL

Contract: 95212

Lab Code: INCHVT

Case No.: 95212

SAS No.:

SDG No.: 68391

Matrix: (soil/water) WATER

Lab Sample ID: 353050

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V353050V

Level: (low/med) LOW

Date Received: 02/25/98

% Moisture: not dec. _____

Date Analyzed: 03/11/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3-----	Chloromethane	10	U
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	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	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
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	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
1330-20-7-----	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK01

Lab Name: ITS ENVIRONMENTAL

Contract: 95212

Lab Code: INCHVT

Case No.: 95212

SAS No.:

SDG No.: 68391

Matrix: (soil/water) WATER

Lab Sample ID: 353050

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V353050V

Level: (low/med) LOW

Date Received: 02/25/98

% Moisture: not dec. _____

Date Analyzed: 03/11/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKW6

Lab Name: ITS ENVIRONMENTAL

Contract: 95212

Lab Code: INCHVT

Case No.: 95212

SAS No.:

SDG No.: 68391

Matrix: (soil/water) WATER

Lab Sample ID: VBLKW6

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: VKCB001AV

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 02/27/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3-----	Chloromethane	10	U
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	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	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
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	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
1330-20-7-----	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBCLKW6

Lab Name: ITS ENVIRONMENTAL

Contract: 95212

Lab Code: INCHVT

Case No.: 95212

SAS No.:

SDG No.: 68391

Matrix: (soil/water) WATER

Lab Sample ID: VBCLKW6

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: VKCB001AV

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 02/27/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKZ3

Lab Name: ITS ENVIRONMENTAL

Contract: 95212

Lab Code: INCHVT

Case No.: 95212

SAS No.:

SDG No.: 68391

Matrix: (soil/water) WATER

Lab Sample ID: VBLKZ3

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: VKCB001BV

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/11/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3-----	Chloromethane	10	U
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	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	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
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	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
1330-20-7-----	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBKZ3

Lab Name: ITS ENVIRONMENTAL

Contract: 95212

Lab Code: INCHVT

Case No.: 95212

SAS No.:

SDG No.: 68391

Matrix: (soil/water) WATER

Lab Sample ID: VBKZ3

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: VKCB001BV

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/11/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. _____				
2. _____				
3. _____				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VKCB LCS

Lab Name: ITS ENVIRONMENTAL

Contract: 95212

Lab Code: INCHVT

Case No.: 95212

SAS No.:

SDG No.: 68391

Matrix: (soil/water) WATER

Lab Sample ID: VKCB LCS

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: VKC050BQV

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/11/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3-----	Chloromethane	10 U	
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 U	
67-64-1-----	Acetone	10 U	
75-15-0-----	Carbon Disulfide	10 U	
75-35-4-----	1,1-Dichloroethene	47	
75-34-3-----	1,1-Dichloroethane	10 U	
540-59-0-----	1,2-Dichloroethene (total)	10 U	
67-66-3-----	Chloroform	10 U	
107-06-2-----	1,2-Dichloroethane	10 U	
78-93-3-----	2-Butanone	10 U	
71-55-6-----	1,1,1-Trichloroethane	10 U	
56-23-5-----	Carbon Tetrachloride	10 U	
75-27-4-----	Bromodichloromethane	10 U	
78-87-5-----	1,2-Dichloropropane	10 U	
10061-01-5-----	cis-1,3-Dichloropropene	10 U	
79-01-6-----	Trichloroethene	57	
124-48-1-----	Dibromochloromethane	10 U	
79-00-5-----	1,1,2-Trichloroethane	10 U	
71-43-2-----	Benzene	54	
10061-02-6-----	trans-1,3-Dichloropropene	10 U	
75-25-2-----	Bromoform	10 U	
108-10-1-----	4-Methyl-2-Pentanone	10 U	
591-78-6-----	2-Hexanone	10 U	
127-18-4-----	Tetrachloroethene	10 U	
79-34-5-----	1,1,2,2-Tetrachloroethane	10 U	
108-88-3-----	Toluene	52	
108-90-7-----	Chlorobenzene	51	
100-41-4-----	Ethylbenzene	10 U	
100-42-5-----	Styrene	10 U	
1330-20-7-----	Xylene (total)	10 U	

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ITS ENVIRONMENTAL

Contract: 95212

Lab Code: INCHVT

Case No.: 95212

SAS No.:

SDG No.: 68391

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====
01	VBLKW6	104	106	96		0
02	AGHP1-70	98	102	94		0
03	AGHP1-60	104	108	92		0
04	AGHP1-80	104	106	94		0
05	TB	102	102	96		0
06	VBLKZ3	100	92	88		0
07	VKCB LCS	98	92	86		0
08	VHBLK01	100	92	90		0
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QC LIMITS

SMC1 (TOL) = Toluene-d8 (88-110)
 SMC2 (BFB) = Bromofluorobenzene (86-115)
 SMC3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: ITS ENVIRONMENTAL

Contract: 95212

Lab Code: INCHVT

Case No.: 95212

SAS No.:

SDG No.: 68391

Matrix Spike - Sample No.: VKCB LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	50		47	94	61-145
Trichloroethene	50		57	114	71-120
Benzene	50		54	108	76-127
Toluene	50		52	104	76-125
Chlorobenzene	50		51	102	75-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBCLKW6

Lab Name: ITS ENVIRONMENTAL

Contract: 95212

Lab Code: INCHVT

Case No.: 95212

SAS No.:

SDG No.: 68391

Lab File ID: VKCB001AV

Lab Sample ID: VBLKW6

Date Analyzed: 02/27/98

Time Analyzed: 1530

GC Column: DB-624 ID: 0.53 (mm)

Heated Purge: (Y/N) N

Instrument ID: V

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	AGHP1-70	353047	V353047V	1613
02	AGHP1-60	353046	V353046V	1642
03	AGHP1-80	353048	V353048V	1705
04	TB	353049	V353049V	1729
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBKZ3

Lab Name: ITS ENVIRONMENTAL

Contract: 95212

Lab Code: INCHVT

Case No.: 95212

SAS No.:

SDG No.: 68391

Lab File ID: VKCB001BV

Lab Sample ID: VBKZ3

Date Analyzed: 03/11/98

Time Analyzed: 0922

GC Column: DB-624 ID: 0.53 (mm)

Heated Purge: (Y/N) N

Instrument ID: V

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	VKCB LCS	VKCB LCS	VKC050BQV	0952
02	VHBLK01	353050	V353050V	1049
03				
04				
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COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ITS ENVIRONMENTAL Contract: 95212
Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 68391
Lab File ID: VKC001PV BFB Injection Date: 02/26/98
Instrument ID: V BFB Injection Time: 2010
GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.9
75	30.0 - 60.0% of mass 95	43.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	77.7
175	5.0 - 9.0% of mass 174	5.6 (7.2)1
176	95.0 - 101.0% of mass 174	77.0 (99.2)1
177	5.0 - 9.0% of mass 176	5.2 (6.7)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	VSTD200	VKC200HV	02/26/98	2047
02	VSTD100	VSTD100	VKC100HV	02/26/98	2113
03	VSTD050	VSTD050	VKC050HV	02/26/98	2139
04	VSTD020	VSTD020	VKC020HV	02/26/98	2203
05	VSTD010	VSTD010	VKC010HV	02/26/98	2227
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ITS ENVIRONMENTAL Contract: 95212
Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 68391
Lab File ID: VKCA002PV BFB Injection Date: 02/27/98
Instrument ID: V BFB Injection Time: 1442
GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.9
75	30.0 - 60.0% of mass 95	42.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	80.3
175	5.0 - 9.0% of mass 174	5.7 (7.1)1
176	95.0 - 101.0% of mass 174	78.7 (98.1)1
177	5.0 - 9.0% of mass 176	5.5 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VKC050AHV	VKC050AHV	VKC050AHV	02/27/98	1459
02	VBLKW6	VBLKW6	VKCB001AV	02/27/98	1530
03	AGHP1-70	353047	V353047V	02/27/98	1613
04	AGHP1-60	353046	V353046V	02/27/98	1642
05	AGHP1-80	353048	V353048V	02/27/98	1705
06	TB	353049	V353049V	02/27/98	1729
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ITS ENVIRONMENTAL Contract: 95212
Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 68391
Lab File ID: VKC003PV BFB Injection Date: 03/11/98
Instrument ID: V BFB Injection Time: 0820
GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.4
75	30.0 - 60.0% of mass 95	43.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	78.8
175	5.0 - 9.0% of mass 174	5.8 (7.4)1
176	95.0 - 101.0% of mass 174	77.4 (98.2)1
177	5.0 - 9.0% of mass 176	5.5 (7.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	VKC050BHV	03/11/98	0900
02	VLKZ3	VLKZ3	VKCB001BV	03/11/98	0922
03	VKCB LCS	VKCB LCS	VKC050BQV	03/11/98	0952
04	VHBLK01	353050	V353050V	03/11/98	1049
05					
06					
07					
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6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ITS ENVIRONMENTAL Contract: 95212
Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 68391
Instrument ID: V Calibration Date(s): 02/26/98 02/26/98
Heated Purge: (Y/N) N Calibration Time(s): 2047 2227
GC Column: DB-624 ID: 0.53 (mm)

LAB FILE ID:		RRF10 =VKC010HV		RRF20 =VKC020HV			
RRF50 =VKC050HV		RRF100=VKC100HV		RRF200=VKC200HV			
COMPOUND		RRF10	RRF20	RRF50	RRF100	RRF200	% RSD
Chloromethane		0.921	0.952	0.928	0.918	0.918	1.5
Bromomethane	*	0.864	0.919	0.939	0.959	0.835	5.8*
Vinyl Chloride	*	1.127	1.145	1.126	1.154	1.157	1.3*
Chloroethane		0.684	0.701	0.667	0.597	0.582	8.3
Methylene Chloride		1.283	1.168	1.202	1.188	1.198	3.6
Acetone		0.353	0.326	0.319	0.316	0.282	8.0
Carbon Disulfide		3.706	3.749	3.731	3.701	3.712	0.5
1,1-Dichloroethene	*	1.338	1.346	1.310	1.311	1.331	1.2*
1,1-Dichloroethane	*	2.106	2.164	2.141	2.155	2.148	1.0*
1,2-Dichloroethene (total)		1.426	1.459	1.433	1.438	1.436	0.9
Chloroform	*	2.588	2.598	2.622	2.598	2.605	0.5*
1,2-Dichloroethane	*	1.389	1.393	1.394	1.354	1.345	1.7*
2-Butanone		0.134	0.144	0.130	0.132	0.121	6.2
1,1,1-Trichloroethane	*	0.529	0.547	0.549	0.548	0.538	1.6*
Carbon Tetrachloride	*	0.541	0.564	0.566	0.564	0.551	2.0*
Bromodichloromethane	*	0.582	0.592	0.588	0.590	0.576	1.1*
1,2-Dichloropropane		0.312	0.324	0.322	0.322	0.316	1.5
cis-1,3-Dichloropropene	*	0.467	0.479	0.480	0.487	0.473	1.5*
Trichloroethene	*	0.409	0.417	0.420	0.424	0.419	1.3*
Dibromochloromethane	*	0.580	0.598	0.599	0.607	0.592	1.7*
1,1,2-Trichloroethane	*	0.295	0.302	0.299	0.304	0.296	1.2*
Benzene	*	0.803	0.820	0.815	0.818	0.798	1.2*
trans-1,3-Dichloropropene	*	0.390	0.401	0.404	0.409	0.398	1.8*
Bromoform	*	0.446	0.451	0.456	0.472	0.466	2.3*
4-Methyl-2-Pentanone		0.254	0.253	0.248	0.260	0.259	2.0
2-Hexanone		0.256	0.248	0.250	0.263	0.259	2.5
Tetrachloroethene	*	0.480	0.500	0.503	0.505	0.495	2.0*
1,1,2,2-Tetrachloroethane	*	0.553	0.567	0.552	0.571	0.565	1.5*
Toluene	*	1.148	1.176	1.156	1.172	1.142	1.3*
Chlorobenzene	*	0.909	0.958	0.938	0.951	0.923	2.2*
Ethylbenzene	*	0.449	0.468	0.460	0.464	0.451	1.8*
Styrene	*	0.920	0.956	0.952	0.958	0.924	1.9*
Xylene (total)	*	0.536	0.559	0.550	0.555	0.536	1.9*
=====							
Toluene-d8		1.057	1.088	1.083	1.090	1.065	1.4
Bromofluorobenzene	*	0.691	0.719	0.710	0.725	0.690	2.2*
1,2-Dichloroethane-d4		1.251	1.266	1.259	1.246	1.254	0.6

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS ENVIRONMENTAL Contract: 95212
 Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 68391
 Instrument ID: V Calibration Date: 02/27/98 Time: 1459
 Lab File ID: VKC050AHV Init. Calib. Date(s): 02/26/98 02/26/98
 Heated Purge: (Y/N) N Init. Calib. Times: 2047 2227
 GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Chloromethane	0.927	0.922		0.5	
Bromomethane	0.903	0.846	0.100	6.3	25.0
Vinyl Chloride	1.142	1.124	0.100	1.6	25.0
Chloroethane	0.646	0.605		6.3	
Methylene Chloride	1.208	1.209		-0.1	
Acetone	0.319	0.288		9.7	
Carbon Disulfide	3.720	3.759		-1.0	
1,1-Dichloroethene	1.327	1.316	0.100	0.8	25.0
1,1-Dichloroethane	2.143	2.118	0.200	1.2	25.0
1,2-Dichloroethene (total)	1.438	1.421		1.2	
Chloroform	2.602	2.595	0.200	0.3	25.0
1,2-Dichloroethane	1.375	1.392	0.100	-1.2	25.0
2-Butanone	0.132	0.115		12.9	
1,1,1-Trichloroethane	0.542	0.540	0.100	0.4	25.0
Carbon Tetrachloride	0.557	0.548	0.100	1.6	25.0
Bromodichloromethane	0.586	0.590	0.200	-0.7	25.0
1,2-Dichloropropane	0.319	0.322		-0.9	
cis-1,3-Dichloropropene	0.477	0.485	0.200	-1.7	25.0
Trichloroethene	0.418	0.406	0.300	2.9	25.0
Dibromochloromethane	0.595	0.585	0.100	1.7	25.0
1,1,2-Trichloroethane	0.299	0.299	0.100	0.0	25.0
Benzene	0.811	0.812	0.500	-0.1	25.0
trans-1,3-Dichloropropene	0.400	0.407	0.100	-1.8	25.0
Bromoform	0.458	0.448	0.100	2.2	25.0
4-Methyl-2-Pentanone	0.255	0.282		-10.6	
2-Hexanone	0.255	0.282		-10.6	
Tetrachloroethene	0.497	0.486	0.200	2.2	25.0
1,1,2,2-Tetrachloroethane	0.562	0.556	0.500	1.1	25.0
Toluene	1.159	1.157	0.400	0.2	25.0
Chlorobenzene	0.936	0.926	0.500	1.1	25.0
Ethylbenzene	0.458	0.455	0.100	0.6	25.0
Styrene	0.942	0.946	0.300	-0.4	25.0
Xylene (total)	0.547	0.539	0.300	1.5	25.0
=====	=====	=====	=====	=====	=====
Toluene-d8	1.077	1.067		0.9	
Bromofluorobenzene	0.707	0.710	0.200	-0.4	25.0
1,2-Dichloroethane-d4	1.255	1.268		-1.0	

All other compounds must meet a minimum RRF of 0.010.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS ENVIRONMENTAL Contract: 95212
Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 68391
Instrument ID: V Calibration Date: 03/11/98 Time: 0900
Lab File ID: VKC050BHV Init. Calib. Date(s): 02/26/98 02/26/98
Heated Purge: (Y/N) N Init. Calib. Times: 2047 2227
GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.927	1.082		-16.7	
Bromomethane	0.903	0.638	0.100	29.3	25.0
Vinyl Chloride	1.142	1.204	0.100	-5.4	25.0
Chloroethane	0.646	0.644		0.3	
Methylene Chloride	1.208	1.297		-7.4	
Acetone	0.319	0.199		37.6	
Carbon Disulfide	3.720	4.253		-14.3	
1,1-Dichloroethene	1.327	1.470	0.100	-10.8	25.0
1,1-Dichloroethane	2.143	2.323	0.200	-8.4	25.0
1,2-Dichloroethene (total)	1.438	1.486		-3.3	
Chloroform	2.602	2.915	0.200	-12.0	25.0
1,2-Dichloroethane	1.375	1.542	0.100	-12.1	25.0
2-Butanone	0.132	0.101		23.5	
1,1,1-Trichloroethane	0.542	0.499	0.100	7.9	25.0
Carbon Tetrachloride	0.557	0.498	0.100	10.6	25.0
Bromodichloromethane	0.586	0.525	0.200	10.4	25.0
1,2-Dichloropropane	0.319	0.290		9.1	
cis-1,3-Dichloropropene	0.477	0.424	0.200	11.1	25.0
Trichloroethene	0.418	0.382	0.300	8.6	25.0
Dibromochloromethane	0.595	0.520	0.100	12.6	25.0
1,1,2-Trichloroethane	0.299	0.280	0.100	6.4	25.0
Benzene	0.811	0.782	0.500	3.6	25.0
trans-1,3-Dichloropropene	0.400	0.361	0.100	9.8	25.0
Bromoform	0.458	0.439	0.100	4.1	25.0
4-Methyl-2-Pentanone	0.255	0.279		-9.4	
2-Hexanone	0.255	0.277		-8.6	
Tetrachloroethene	0.497	0.491	0.200	1.2	25.0
1,1,2,2-Tetrachloroethane	0.562	0.574	0.500	-2.1	25.0
Toluene	1.159	1.184	0.400	-2.2	25.0
Chlorobenzene	0.936	0.946	0.500	-1.1	25.0
Ethylbenzene	0.458	0.458	0.100	0.0	25.0
Styrene	0.942	0.960	0.300	-1.9	25.0
Xylene (total)	0.547	0.556	0.300	-1.6	25.0
Toluene-d8	1.077	1.124		-4.4	
Bromofluorobenzene	0.707	0.762	0.200	-7.8	25.0
1,2-Dichloroethane-d4	1.255	1.444		-15.0	

All other compounds must meet a minimum RRF of 0.010.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ITS ENVIRONMENTAL Contract: 95212
Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 68391
Lab File ID (Standard): VKC050AHV Date Analyzed: 02/27/98
Instrument ID: V Time Analyzed: 1459
GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	385852	7.32	1734568	8.49	1407066	11.73
UPPER LIMIT	771704	7.82	3469136	8.99	2814132	12.23
LOWER LIMIT	192926	6.82	867284	7.99	703533	11.23
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 VBLKW6	358490	7.31	1640495	8.49	1303311	11.74
02 AGHP1-70	326267	7.31	1413036	8.49	1139144	11.73
03 AGHP1-60	367526	7.31	1647553	8.49	1344514	11.73
04 AGHP1-80	356024	7.33	1602279	8.49	1294947	11.73
05 TB	352405	7.32	1587232	8.49	1281574	11.73
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ITS ENVIRONMENTAL Contract: 95212
Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 68391
Lab File ID (Standard): VKC050BHV Date Analyzed: 03/11/98
Instrument ID: V Time Analyzed: 0900
GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	321178	7.32	1662549	8.49	1334070	11.73
UPPER LIMIT	642356	7.82	3325098	8.99	2668140	12.23
LOWER LIMIT	160589	6.82	831274	7.99	667035	11.23
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 VBLKZ3	285010	7.33	1301799	8.49	1006971	11.73
02 VKCB LCS	263568	7.31	1212506	8.49	949533	11.73
03 VHBLK01	272633	7.33	1258511	8.49	980186	11.73
04						
05						
06						
07						
08						
09						
10						
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14						
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16						
17						
18						
19						
20						
21						
22						

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Report Date : 21-Jan-98 20:38:07

Page 1

ITS Environmental
OLM03 INSTRUMENT DETECTION LIMIT SUMMARY REPORT

Method File: /chem/v.i/VJOD OLM03W.b/VOA_OLM03.m
Batch File: /chem/v.i/VJOD OLM03W.b
List ID: V.i UNITS: UG/L TRUE VALUE: 1.0PPB PURGE VOLUME: 5ML

ID: MDL01 MDL02 MDL03 MDL04 MDL05 MDL06 MDL07
ENAME: VJODL1V VJODL2V VJODL3V VJODL4V VJODL5V VJODL6V VJODL7V
DATE: 06-JAN-1998 06-JAN-1998 06-JAN-1998 06-JAN-1998 06-JAN-1998 06-JAN-1998 06-JAN-1998
TIME: 18:11 18:36 19:01 19:27 19:52 20:18 20:43

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL
1 Chloromethane	0.96	0.85	0.92	0.85	0.96	0.85	0.75	0.88	0.08	0.24
2 Vinyl Chloride	0.80	0.77	0.75	0.73	0.81	0.72	0.75	0.76	0.03	0.11
3 Bromomethane	1.23	0.83	1.16	1.18	1.35	1.76	1.22	1.25	0.28	0.87
4 Chloroethane	0.81	0.80	0.78	0.72	0.76	0.74	0.78	0.77	0.03	0.10
5 Acetone	1.74	1.48	2.82	2.75	4.95	1.40	2.30	2.49	1.23	3.86
6 1,1-Dichloroethene	0.91	0.96	0.88	0.90	0.88	0.87	1.01	0.91	0.05	0.16
7 Methylene Chloride	1.25	1.13	1.18	1.18	1.12	1.02	1.12	1.14	0.07	0.22
8 Carbon Disulfide	0.90	0.87	0.86	0.85	0.84	0.77	0.83	0.84	0.04	0.12
9 trans-1,2-Dichloroethene	0.97	1.08	0.90	0.81	0.74	0.86	0.94	0.90	0.11	0.34
10 1,2-Dichloroethene (cis)	2.03	2.13	1.84	1.77	1.62	1.83	2.05	1.90	0.18	0.57
11 1,1-Dichloroethane	0.97	0.97	0.87	0.78	0.80	0.80	0.92	0.87	0.08	0.27
12 2-Butanone	2.57	2.33	2.72	1.72	1.09	2.33	2.21	2.14	0.56	1.76
13 cis-1,2-Dichloroethene	1.06	1.05	0.95	0.96	0.88	0.97	1.12	1.00	0.08	0.26
14 Chloroform	0.95	1.15	1.09	1.06	1.01	0.86	1.09	1.03	0.10	0.31
15 Bromochloromethane	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	0.00	0.00
16 1,1,1-Trichloroethane	1.07	1.09	1.00	0.95	0.97	1.02	1.08	1.03	0.05	0.17
17 Carbon Tetrachloride	0.98	0.96	0.88	0.83	0.85	0.82	0.97	0.90	0.07	0.22

Reviewer 1
Reviewer 2

Antoine P. Chanares

Date: 1/22/98

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port Date : 21-Jan-98 20:38:07

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ITS Environmental
OLM03 INSTRUMENT DETECTION LIMIT SUMMARY REPORT

Method File: /chem/V.i/VJOD OLM03W.b/VOA_OLM03.m
Batch File: /chem/V.i/VJOD OLM03W.b
List ID: V.i UNITS: UG/L TRUE VALUE: 1.0PPB PURGE VOLUME: 5ML

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL
18 1,2-Dichloroethane-d4	45.78	47.51	42.12	41.72	40.31	42.38	46.16	43.71	2.72	8.56
19 1,2-Dichloroethane	0.98	0.99	0.87	0.81	0.82	0.79	0.97	0.89	0.09	0.28
20 Benzene	1.02	0.97	0.94	0.88	0.94	0.85	0.96	0.94	0.06	0.18
21 1,4-Difluorobenzene	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	0.00	0.00
22 Trichloroethene	0.99	0.98	0.91	0.84	0.89	0.78	1.03	0.92	0.09	0.28
23 1,2-Dichloropropene	1.01	1.03	0.92	0.94	0.89	0.94	0.99	0.96	0.05	0.16
24 Bromodichloromethane	1.21	1.24	1.09	1.07	1.04	1.10	1.24	1.14	0.09	0.27
25 4-Methyl-2-Pentanone	1.07	1.30	1.11	0.97	2.43	1.46	1.24	1.37	0.50	1.56
26 cis-1,3-Dichloropropene	0.94	0.91	0.87	0.80	0.85	0.79	0.89	0.86	0.05	0.17
27 Toluene-d8	51.46	51.08	49.09	48.63	49.04	49.26	50.95	49.93	1.18	3.70
28 Toluene	1.04	0.96	0.96	0.89	0.91	0.87	1.02	0.95	0.06	0.20
29 trans-1,3-Dichloropropene	0.96	0.96	0.87	0.83	0.83	0.88	0.91	0.89	0.05	0.17
30 1,1,2-Trichloroethane	1.23	1.11	1.19	1.16	1.19	1.02	1.21	1.16	0.07	0.23
31 2-Hexanone	1.05	1.61	1.74	2.23	1.68	1.11	1.50	1.56	0.40	1.27
32 Tetrachloroethene	1.03	0.98	0.91	0.86	0.88	0.84	0.98	0.92	0.07	0.22
33 Dibromochloromethane	1.10	1.08	1.05	1.02	1.05	1.01	1.08	1.06	0.03	0.11
34 Chlorobenzene-d5	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	0.00	0.00
35 Chlorobenzene	1.03	0.99	0.99	0.93	0.95	0.90	0.99	0.97	0.04	0.14
36 Ethylbenzene	1.03	0.96	0.96	0.88	0.91	0.85	0.97	0.94	0.06	0.19
37 Xylene (m,p)	2.03	1.88	1.92	1.73	1.85	1.67	1.92	1.86	0.12	0.38
38 Xylene (total)	3.18	2.96	3.00	2.78	2.96	2.68	3.03	2.94	0.16	0.52
39 Xylene (o)	0.99	0.92	0.92	0.90	0.95	0.88	0.95	0.93	0.04	0.12

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port Date : 21-Jan-98 20:38:07

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ITS Environmental
OLM03 INSTRUMENT DETECTION LIMIT SUMMARY REPORT

Method File: /chem/V.i/VJOD OLM03W.b/VOA_OLM03.m
atch File: /chem/V.i/VJOD OLM03W.b
ist ID: V.i UNITS: UG/L TRUE VALUE: 1.0PPB PURGE VOLUME: 5ML

compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL
40 Styrene	1.00	0.90	0.94	0.88	0.92	0.84	0.91	0.91	0.05	0.16
41 Bromoform	1.26	1.16	1.19	1.09	1.31	1.07	1.22	1.19	0.09	0.28
42 1,1,2,2-Tetrachloroeth	1.29	1.00	1.25	0.99	1.25	1.26	1.25	1.18	0.13	0.41
43 Bromofluorobenzene	52.49	51.21	51.98	51.76	53.40	51.45	52.33	52.09	0.73	2.31
46 2-Chloroethylvinylethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Trichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 Ethyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

000041

SAMPLE PREPARATION

ITS ENVIRONMENTAL

PRINTED : 02/25/98
TIME : 10:51:19

METHOD NO : OLMNY.VOL :ANW

ETR NO : 68391
PAGE NO : 1

LEVEL 4	TURNAROUND 26 DAYS	SECTION 1MCIV
---------	--------------------	---------------

PARAMETER : Analysis, VOL	TECH	DATE	TIME	INST	DATE	TIME
DATE DUE : 03/23/98						
DATE REC'D : 02/25/98						
CLIENT : LAWMAT						
PROJECT : 95212						
Case:95212 SDG:68391						
TRANSCRIPTION BY :						
CHECKED BY :						
WORKSHEET & DATA FILED :						

COMMENTS/SPECIAL INSTRUCTIONS

1. NYS HT from VTSR - VOC-7.
2. Internal c-o-c required.
3. Report an LCS.
4. WRD - provide screen results to CAO. Additionally, screen forms
(Continued on Next Page)

LAB NO.	NOTES AND CALCULATIONS	RESULTS
353046		TCE 8
353047		TCE 18 PCE 35
353048		
353049		

LAB NO.	LAB SAMPLE DESCRIPTION	
353046	AGHP1-60 : [] 02/24/98 @0920 (Water	pH 7
353047	AGHP1-70 : [] 02/24/98 @1020 (Water	6
353048	AGHP1-80 : [] 02/24/98 @1115 (Water	6
353049	TB : [] 02/18/98 @ (Water	1

000042

ITS ENVIRONMENTAL

PRINTED : 02/25/98
TIME : 10:51:19

METHOD NO : OLMNY.VOL :ANW

ETR NO : 68391
PAGE NO : 2

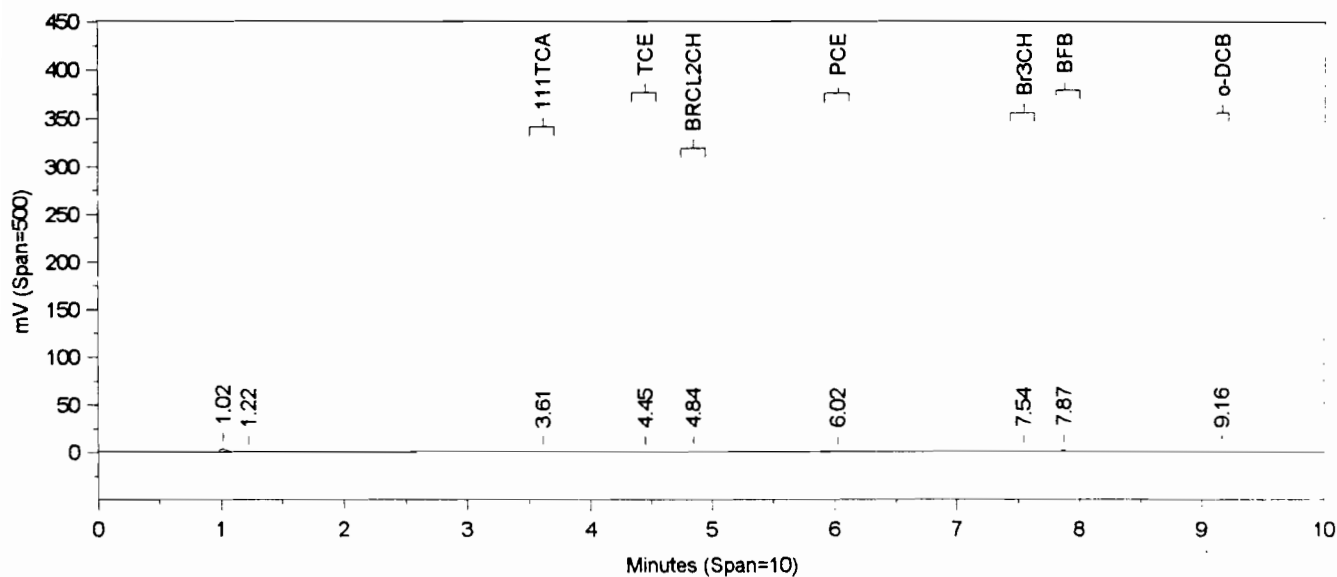
LEVEL 4	TURNAROUND 26 DAYS	SECTION 1MCIV
---------	--------------------	---------------

PARAMETER : Analysis, VOL	TECH	DATE	TIME	INST	DATE	TIME
DATE DUE : 03/23/98						
DATE REC'D : 02/25/98						
CLIENT : LAWMAT						
PROJECT : 95212						
Case:95212 SDG:68391						
TRANSCRIPTION BY :						
CHECKED BY :						
WORKSHEET & DATA FILED :						

COMMENTS/SPECIAL INSTRUCTIONS

required with data package.
5. Deliverables: NYS Forms, sdsp(paginate, 2 copies), narrative. Include LMS project# 650-201, LMS Project Name: NYSDEC Atlas Graphics on cover
** Do not double side sdsp.**
6. Invoicing: send to finance. Include info in item 5.
This is the first and last sample set for this SDG.
353046-48 3-40ml NP vials per.
353049 2-40ml HCl pres. vials.
353050 2-40ml NP vials.

000043



Sample Name: 353046

VOA SCREEN ON HP767 DB-624

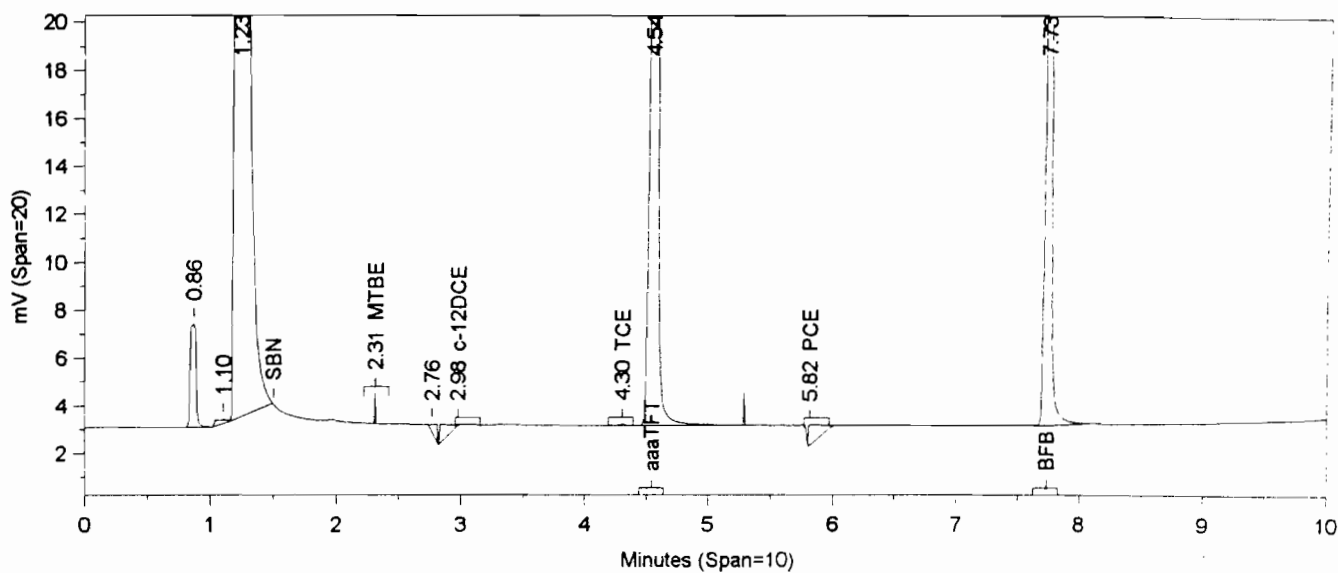
Data File: C:\CPWIN\DATA1\VOAE056.23R

Acquired from Chrom3--Det3A on 02-25-1998 15:32:41 by WRD

Sample 353046 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
1.02		0	2943.02	6.02	PCE	1	140.16
1.22		0	164.61	7.54	Br3CH	2	33.61
3.61	111TCA	1	72.10	7.87	BFB	1701	1232.22
4.45	TCE	8	149.76	9.16	o-DCB	228	291.86
4.84	BRCL2CH	1	42.72				

Surrogate BFB recovery is 85.1%



Sample Name: 353046

VOA SCREEN ON HP767 DB-624

Data File: C:\CPWIN\DATA1\VOAF056.23R

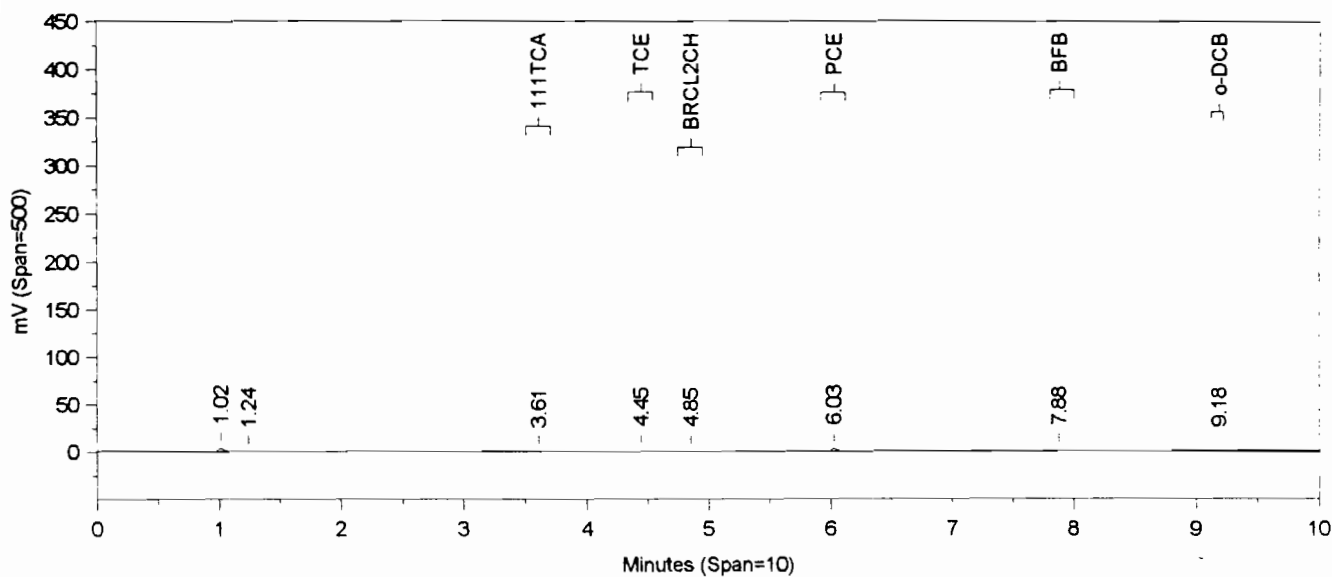
Acquired from Chrom3--Det3B on 02-25-1998 15:32:41 by WRD

Sample 353046 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
0.86		0	4353.40	2.98	c-12DCE	-3	47.65
1.10		0	174.32	4.30	TCE	1	59.34
1.23		0	674222.30	4.54	aaaTFT	1797	43080.53
2.31	MTBE	161	1256.41	5.82	PCE	93	861.17
2.76		0	322.36	7.73	BFB	2070	34586.92

Surrogate aaaTFT recovery is 89.8%

Surrogate BFB recovery is 103.5%



Sample Name: 353047

VOA SCREEN ON HP767 DB-624

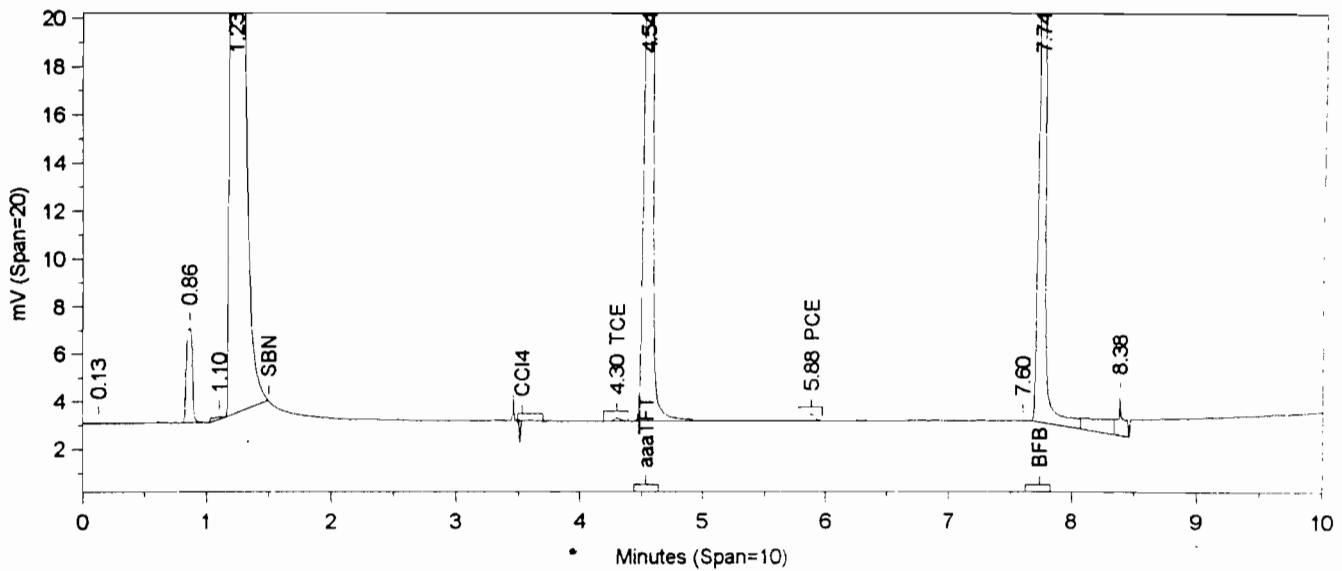
Data File: C:\CPWIN\DATA1\VOAE056.24R

Acquired from Chrom3--Det3A on 02-25-1998 15:49:18 by WRD

Sample 353047 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
1.02		0	2997.01	4.85	BRCL2CH	1	40.96
1.24		0	153.29	6.03	PCE	35	2597.94
3.61	111TCA	1	31.44	7.88	BFB	1755	1266.34
4.45	TCE	18	327.41	9.18	o-DCB	212	274.81

Surrogate BFB recovery is 87.8%



Sample Name: 353047

VOA SCREEN ON HP767 DB-624

Data File: C:\CPWIN\DATA1\VOAF056.24R

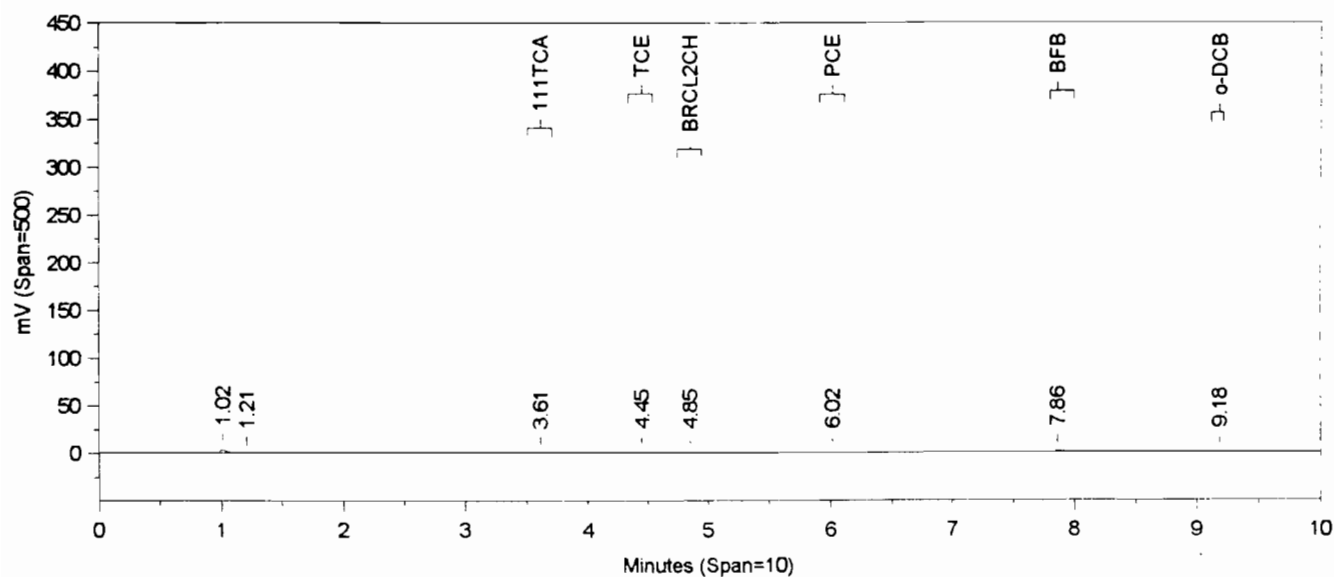
Acquired from Chrom3--Det3B on 02-25-1998 15:49:18 by WRD

Sample 353047 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
0.13		0	57.70	4.54	aaaTFT	1832	43928.99
0.86		0	3984.84	5.88	PCE	28	282.95
1.10		0	127.56	7.60		0	24.02
1.23		0	686877.20	7.74	BFB	2095	35012.99
4.30	TCE	10	131.49	8.38		0	1593.53

Surrogate aaaTFT recovery is 91.6%

Surrogate BFB recovery is 104.8%



Sample Name: 353048

VOA SCREEN ON HP767 DB-624

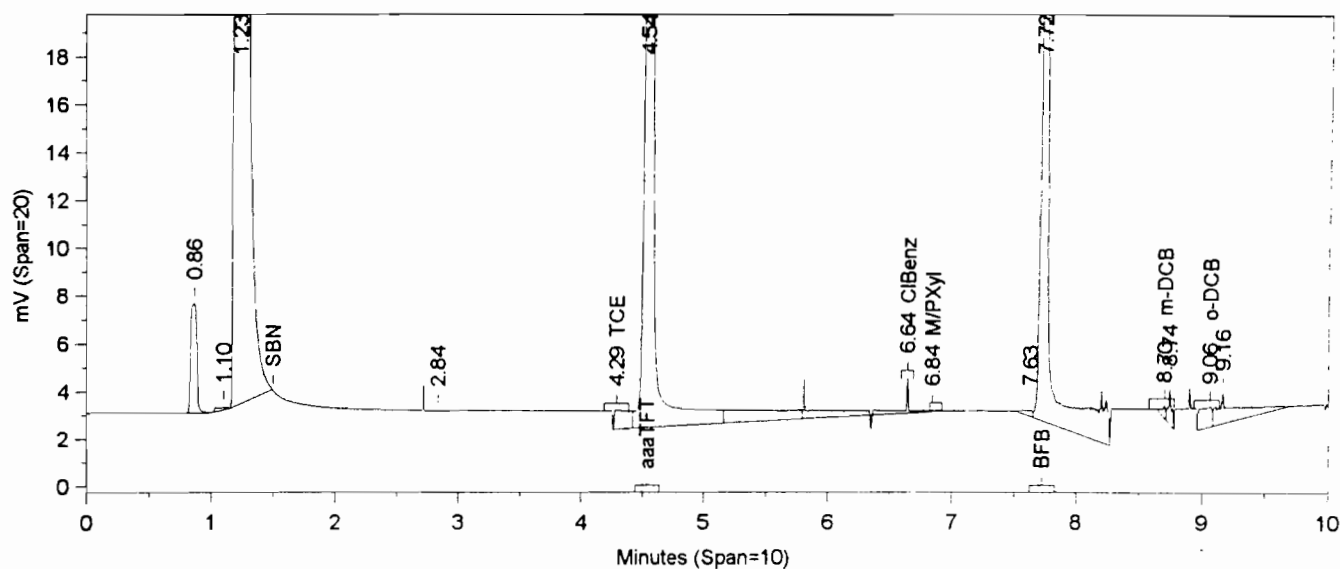
Data File: C:\CPWIN\DATA1\VOAE056.25R

Acquired from Chrom3--Det3A on 02-25-1998 16:05:49 by WRD

Sample 353048 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
1.02		0	3002.47	4.85	BRCL2CH	1	46.19
1.21		0	171.01	6.02	PCE	1	109.84
3.61	111TCA	1	68.38	7.86	BFB	1755	1266.62
4.45	TCE	1	35.15	9.18	o-DCB	249	314.79

Surrogate BFB recovery is 87.8%



Sample Name: 353048

VOA SCREEN ON HP767 DB-624

Data File: C:\CPWIN\DATA1\VOAF056.25R

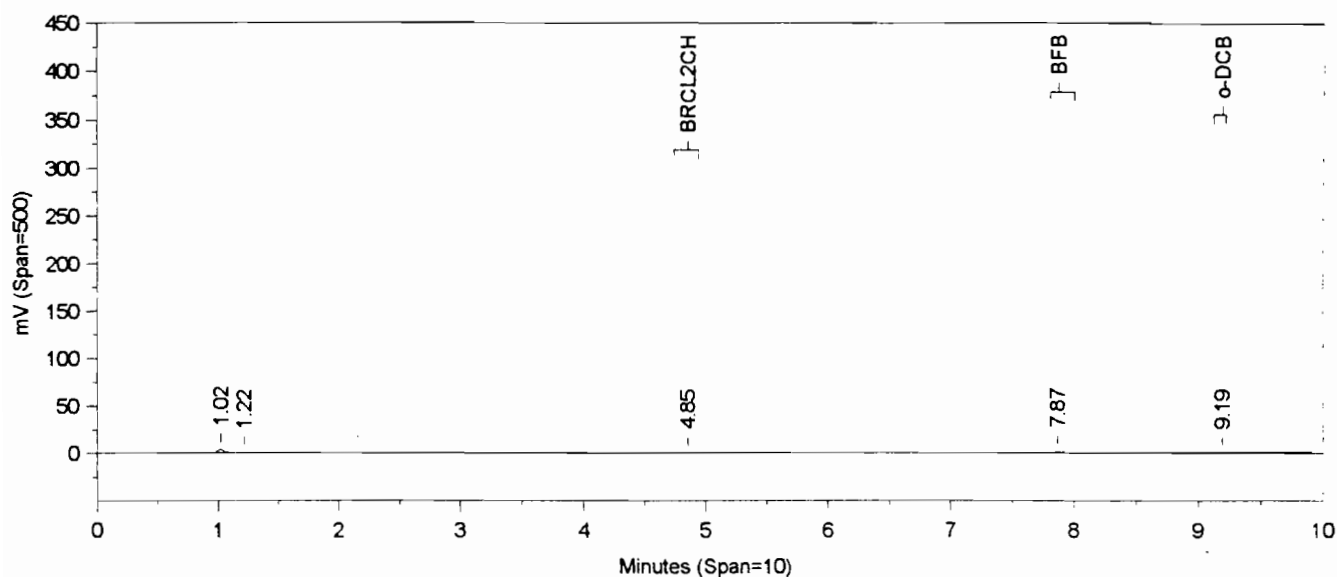
Acquired from Chrom3--Det3B on 02-25-1998 16:05:49 by WRD

Sample 353048 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
0.86		0	4645.90	6.84	M/PXyl	-4	100.61
1.10		0	142.21	7.63		0	267.53
1.23		0	667057.30	7.72	BFB	2105	35171.96
2.84		0	16.50	8.70	m-DCB	23	560.91
4.29	TCE	95	779.99	8.74		0	1503.97
4.54	aaaTFT	1891	45328.51	9.06	o-DCB	40	837.73
6.64	ClBenz	51	1503.03	9.16		0	1295.40

Surrogate aaaTFT recovery is 94.5%

Surrogate BFB recovery is 105.2%



Sample Name: 353049

VOA SCREEN ON HP767 DB-624

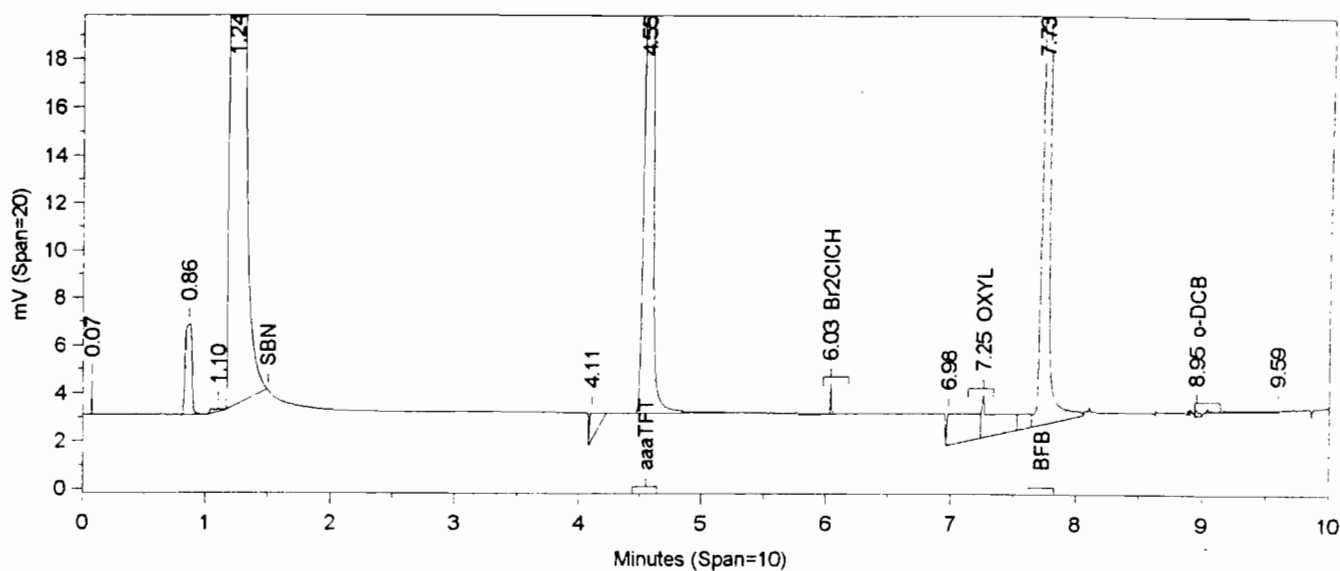
Data File: C:\CPWIN\DATA1\VOAE056.26R

Acquired from Chrom3--Det3A on 02-25-1998 16:22:27 by WRD

Sample 353049 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
1.02		0	2968.59	7.87	BFB	1842	1321.19
1.22		0	172.79	9.19	o-DCB	249	314.89
4.85	BRCL2CH	1	42.60				

Surrogate BFB recovery is 92.1%



Sample Name: 353049

VOA SCREEN ON HP767 DB-624

Data File: C:\CPWINDATA1\VOAF056.26R

Acquired from Chrom3--Det3B on 02-25-1998 16:22:27 by WRD

Sample 353049 was diluted 1:5.

RT	Name	Amount	Height	RT	Name	Amount	Height
0.07		0	1427.41	6.03	Br2ClCH	628	1265.06
0.86		0	3805.78	6.98		0	1339.01
1.10		0	144.93	7.25	OXYL	39	1822.17
1.24		0	664339.30	7.73	BFB	2220	37100.85
4.11		0	1154.15	8.95	o-DCB	12	282.19
4.55	aaaTFT	1902	45583.78	9.59		0	53.64

Surrogate aaaTFT recovery is 95.1%

Surrogate BFB recovery is 111.1%

SAMPLE INFORMATION SUMMARY

Client SDG: 68391

Sample Fraction: VOA

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG

52009491	VKC_OLM03W.b	VKC001PV.d	BFB	BFBV01	BFBV01	52009490	VKC_OLM03	VKC_OLM0
52009491	VKC_OLM03W.b	VKC200HV.d	CALIB_5	VSTD200	VSTD200	52009493	VKC_OLM03	VKC_OLM0
52009491	VKC_OLM03W.b	VKC100HV.d	CALIB_4	VSTD100	VSTD100	52009494	VKC_OLM03	VKC_OLM0
52009491	VKC_OLM03W.b	VKC050HV.d	CALIB_3	VSTD050	VSTD050	52009495	VKC_OLM03	VKC_OLM0
52009491	VKC_OLM03W.b	VKC020HV.d	CALIB_2	VSTD020	VSTD020	52009496	VKC_OLM03	VKC_OLM0
52009491	VKC_OLM03W.b	VKC010HV.d	CALIB_1	VSTD010	VSTD010	52009497	VKC_OLM03	VKC_OLM0
~~52009491~~	~~VKC_OLM03W.b~~	~~VKC002V.d~~	~~BLANK~~	~~VBLKW5~~	~~VBLKW5~~	~~52009498~~	~~0226W5~~	~~VKC_OLM0~~

52009518	VKCA_OLM03W.b	VKCA002PV.d	BFB	BFBV02	BFBV02	52009517	VKCA_OLM0	VKCA_OLM
52009518	VKCA_OLM03W.b	VKC050AHV.d	CCALIB_3	VKC050AHV	VKC050AHV	52009520	VKCA_OLM0	VKCA_OLM
52009518	VKCA_OLM03W.b	VKCB001AV.d	BLANK	VBLKW6	VBLKW6	52009521	0227W6	VKCA_OLM
52009518	VKCA_OLM03W.b	V353047V.d	SAMPLE	AGHP1-70	353047	52009522	0227W6	68391
52009518	VKCA_OLM03W.b	V353046V.d	SAMPLE	AGHP1-60	353046	52009523	0227W6	68391
52009518	VKCA_OLM03W.b	V353048V.d	SAMPLE	AGHP1-80	353048	52009524	0227W6	68391
52009518	VKCA_OLM03W.b	V353049V.d	SAMPLE	TB	353049	52009525	0227W6	68391

52009807	VKCB_OLM03W.b	VKC003PV.d	BFB	BFBV3	BFBV3	52009806	VKCB_OLM0	VKCB_OLM
52009807	VKCB_OLM03W.b	VKC050BHV.d	CCALIB_3	VSTD050	VSTD050	52009808	VKCB_OLM0	VKCB_OLM
52009807	VKCB_OLM03W.b	VKCB001BV.d	BLANK	VBLKZ3	VBLKZ3	52009809	031123	VKCB_OLM
52009807	VKCB_OLM03W.b	VKC050BQV.d	~~BLANK~~	~~VKCB_MBS~~	~~VKCB_MBS~~	52009810	031123	68391
52009807	VKCB_OLM03W.b	V353050V.d	SAMPLE	VHBLK01	353050	52009811	031123	68391

000052

News

Time: 14 : 42
Time: 02 : 42

R1

000053

Tune
Response Factor Summary
11-Table Updated (Finn)
Rt & Ratios Updated (HP)

Inj. Time	File Name	CLISMO #	ETR #	% Moist	Dil. Wt/Vol	SSTD Rec	ISTD	Conc	Final Report	Analyst	Comments
1442	VKCA0028V	853102								MSK	V12039701
1459	VKCO50AN COM#	VKCA				✓	✓	✓			Cmb2259803
1530	VKCB001AV	8 Load Cl. #131K W/6				✓	✓	✓			
1613	V353047V	AGH P1-70	68391	100%		✓	✓	✓			C
1642	V353046V	AGH P1-60				✓	✓	✓			C
1705	V353046V	AGH P1-80				✓	✓	✓			C
1729	V353049V	TG				✓	✓	✓			C
1754	V352011V	MSK-48	60174			✓	✓	✓		V	C

ITS Intertek Testing Services - Environmental Laboratories
GC/MS VOA RUNLOG

Nº 0096

Batch/Method ID: VKCB-OLM03W
Start Date: 3/11/98
Close Date: 3/11/98

Time: 08:20
Time: 20:20

Inst: V

ISTD Summaries
Previous Rt Areas Current Rt

ETR #	SDG
68391	→
68502	→ HCO15
68504	→
68524	→ 68515

Tune
Response Factor Summary
11-Table Updated (Finn)
Rt & Ratios Updated (HP)

Inj. Time	File Name	CLI/SMO #	ETR #	% Moist	X/44M Dil. Wt/Vol	SSTD Rec	ISTD	Conc	Final Report	Analyst	Comments
0820	VK003PV	BEFV3								MTP	V12039701
0900	VK0508HV	VSTD050 CRV#VKCB									CM0309810
0922	VKCB0018V	Blend Li#181K23									
0952	VK05080V	VKCB LCS									CM0310984
1049	V353050V	VH61K01	68391		100%						
1116	V353425V	HCO15	68502								
1140	V353435V	EB002	68504								
1205	V353436V		68504								
1229	V353564V		68524								
1253	V353565V	7									
1317	V353426V	HCO16	68502								
1341	V353427V	17									
1405	V353428MSV	18MS									CM0310801
1429	V353428MDV	18MD									
1451	V3534290V	19									TC 200
1518	V353430V	20									C
1542	V353431V	21									C

CM0305952
CM0305953

5-2-98
B11118

ITS Intertek Testing Services - Environmental Laboratories
GC/MS VOA RUNLOG

Inst: U

Nº 007055

Batch/Method ID: VKCL04031V
Start Date: 2 1 26 1 48
Close Date: 2 1 27 1 48

Time: 20:10
Time: 08:10

ISTD Summaries

Previous Rt Areas Current Rt

[Signature]

ETR #	SDG #

Tune
Response Factor Summary
11-Table Updated (Finn)
Rt & Ratios Updated (HP)

Inj. Time	File Name	CLISMO #	ETR #	% Moist	Dil. Wt/Vol	SSTD Rec	ISTD	Conc	Final Report	Analyst	Comments
2010	VKCL001P1	AF&V01								T&R	V12034701
2020	VKCL001V	13APK									
2047	VKCL2004V	VSTD200									
2113	VKCL1004V	VSTD100									
2134	VKCL0504V	VSTD050									
2203	VKCL0204V	VSTD020									
2227	VKCL0104V	VSTD010									
2252	VKCL002V	VSTD 5M0+V04K V5									
2321	VKCL0200G1V	OLC STD 20									See 70
0016	V351756V	VH8LK45	68137		100%	✓	✓	✓			
0049	V351766V		68136			✓	✓	✓			
0113	V351868V		68151			✓	✓	✓			
0138	V352011V		68174			✓	✓	✓			
0202	V352068V		68185			✓	✓	✓			
0226	V352171V		68227			✓	✓	✓			
0249	V352246V		68237			✓	✓	✓			
0313	V352833V		68331			✓	✓	✓			
0337	V352456V		68267			✓	✓	✓			
0402	V352548V		68284			✓	✓	✓			

Time: 20:16
Time: 08:10

ITS Intertek Testing Services - Environmental Laboratories
GC/MS VOA RUNLOG
Inst: 17

Inst: 2

N^o 0078

000056

ISTD Summaries

Previous

Areas

R1

Areas

Current

Rt

Tune

Response Factor Summary

11-Table Updated (Finn)

Rt & Ratios Updated (HP)

[illegible]

Inj. Time	File Name	CL/SMO #	ETR #	% Moist	Dil. Wt/Vol	SSTD Rec	ISTD	Conc	Final Report	Analyst	Comments
0449	1352575V	VH31401	68285			✓	✓	✓		DR	
0513	1352603V	VH31402 -2042148	68297			✓	✓	✓		↓	

SAMPLE HANDLING

FedEx 181144 Tracking Number **803555045382**

Form 0200 Recipient's Copy

1 From Date 2-24-98

Sender's Name 5th & Taylor Phone (407) 736-8342

Company LEH'S. ENGINEERS

Address Box Bldg 411 Pl. Dept. Architectural

City Port Riva State NY ZIP 11773

2 Your Internal Billing Reference Information

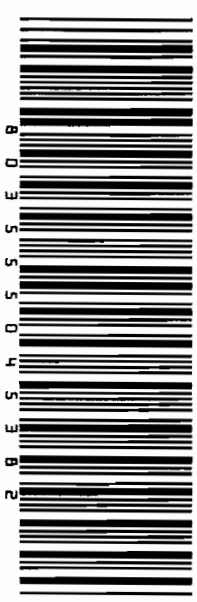
3 To Recipient's Name Sample Receiving Phone (800) 655-1803

Company Intertek Testing Services

Address 55 South Park Drive Dept./Floor/Suite/Room

City Colchester State VT ZIP 05446

For HOLD at FedEx Location check here ☐ **For Saturday Delivery check here** ☐



4b Express Package Service Packages under 150 lbs. ☒ **Priority Overnight** ☐ **Standard Overnight**

☐ **First Overnight** ☐ **2Day** ☐ **Express Saver**

4b Express Freight Service Packages over 150 lbs. ☐ **Overnight Freight** ☐ **2Day Freight** ☐ **Saver Freight**

5 Packaging ☐ **FedEx** ☐ **Pak** ☐ **Box** ☐ **Tube** ☒ **Other**

6 Special Handling Does this shipment contain dangerous goods? ☐ **No** ☐ **Yes** ☐ **CA** ☐ **Cargo Aircraft Only**

7 Payment ☒ **Sender** ☐ **Recipient** ☐ **Third Party** ☐ **Credit Card** ☐ **Cash** ☐ **Check**

8 Release Signature William Plummer 2/25/98 WPL

9 Questions? Call 1 800 Go FedEx (800) 463 3339

INTERTEK TESTING SERVICES ENVIRONMENTAL LABORATORIES LOG-IN SHEET				
Lab Name: Intertek Testing Services Environmental Laboratories - Burlington, VT		Page 1 of 1		
Received By (Print Name): <u>Shannon Minor</u>		Log-in Date: <u>2/25/98</u>		
Received By (Signature): <u>Shannon Minor</u>				
Case Number: <u>95212</u>	CORRESPONDING			
Sample Delivery Group No: <u>108391</u>	CLIENT	SAMPLE	ASSIGNED	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
ETR Number: <u>108391</u>	SAMPLE #	TAG #	LAB #	
REMARKS:	AG HPI-100	N/A	353046	Were air bubbles present
1. Custody Seal <u>Present/Absent*</u>	AG HPI-70	"	353047	in any VOA vials? <u>None</u>
<u>Intact/Broken</u>	AG HPI-80	"	353048	Samples arrived
2. Custody Seal Nos.: <u>N/A</u>	Trip Blank TB	"	353049	vacuumed & ice
3. Chain-of-Custody Records <u>Present/Absent*</u>	JHBLV001	"	353050	Intact, custody seals intact.
4. Sample Information Sheets <u>Present/Absent*</u>				Trip Blank transferred to TB.
5. Airbill <u>Airbill/Sticker</u>				
<u>Present/Absent*</u>				
6. Airbill No.: <u>303555045382</u>				
7. Sample Tags <u>Present/Absent*</u>				
Sample Tag Numbers <u>Listed/Not Listed</u>				
<u>on Chain-of-Custody</u>				
8. Sample Condition: <u>Intact/Broken*</u>				
<u>Leaking</u>				
9. Does information on the custody records, sample information sheets, sample tags and labels agree? <u>Yes/No*</u>				
10. Date Received at Lab: <u>2/25/98</u>				
11. Time Received: <u>0915</u>				
12. Cooler Temperature: <u>5°C</u>				
Sample Transfer				
Fraction: <u>All</u>				
Area #: <u>1244 refrig.</u>				
By: <u>SM</u>				
On: <u>2/25/98</u>				

* Contact Project Director

Reviewed by: _____

Logbook No.: _____

Date: _____

Logbook Page No.: _____

000058

