Analytical Data Package For

NEW YORK STATE
DEPARTMENT OF CONSERVATION
REGION I
CASE NO.: SH194
SDG NO.: 0523-00

WATER SAMPLES
RECEIVED: 5/24/94

SAMPLE DATA SUMMARY PACKAGE

MAY 1994

H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

SAMPLE DATA SUMMARY PACKAGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT: C003180
CASE: SH194
SAMPLE RECEIVED: 5/25/94
0523-00

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1. NYS DEC SUMMARY PAGES

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
SAMPLES RECEIVED 5/24/94
NEW YORK STATE DEPARTMENT ENVIRONMENTAL CONSERVATION
CASE NO.: SH194
SDG: 0523-00

Customer Sample Code	Laboratory Sample Code	Analytical Requirements *					
		*VOA GC/MS	*BNA GC/MS	*VOA GC	*PEST PCB	*METALS	*OTHER
SH19405239159-0A MS/MSD	9416604	X					
SH19405239159-02	9416605	X					
SH19405239159-06	9416606	X					
SH19405239159-07	9416607	X					
SH19405239159-10TRIP BL	9416608	X					

* Check Appropriate Boxes

* CLP, Non-CLP (Please indicate year of protocol) 12/91
* TCL/TAL, HSL, Priority Pollutant

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOA ANALYSES

SAMPLES RECEIVED: 5/23/94
CASE: SH194
SDG: 0523-00

SAMPLE ID	MATRIX	DATE COLLECTED	DATE REC'D AT LAB	LOW LEVEL MED LEVEL	DATE ANALYZED
SH1940523-0A	WATER	5/23/94	5/24/94	LOW	5/27/94
SH1940523-0A DL	"	"	"	"	"
SH1940523-0A MS	"	"	"	"	"
SH1940523-0A MSD	"	"	"	"	"
SH1940523-02	"	"	"	"	"
SH1940523-02 DL	"	"	"	"	5/31/94
SH1940523-06	"	"	"	"	5/27/94
SH1940523-07	"	"	"	"	"
SH1940523-10	"	"	"	"	"

2. CHAIN OF CUSTODY DOCUMENTATION

DEC

H2M LABS, INC.

Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, N.Y. 11747-5076
(516) 694-3040
FAX: 516-694-4122

EXTERNAL CHAIN OF CUSTODY

PROJ. NO.

PROJECT NAME

SAMPLERS: (Signature)/Client

DELIVERABLES: CSF OF CASE: SH194 SDG: 0523-0D

COPY
ORIGINAL LOCATED:
INIT LD DATE 6/15/94

Refrigerator #

SAMPLE CONTAINER DESCRIPTION → 40 ML. VIAL

TOTAL NO. OF CONTAINERS ↓

ANALYSIS REQUESTED

NOTES:

91-1 PUTCL

Switch to Method 624, ASP B deliverables per Jamie Ascher of DEC 5/25/94. JED

BNA/K Switch to CLP per AMS 5/26/94

DATE	TIME	MATRIX	FIELD I.D.	TOTAL NO. OF CONTAINERS	ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. No.	REMARKS
				4	4						MS/MSD
				2	2						
5/23/94			SH194 0523 9159 - 04	4	✓					9416604	MS/MSD
5/23/94			SH194 0523 9159 - 02	2	✓					605	
5/23/94			SH194 0523 9159 - 06	2	✓					606	
5/23/94			SH194 0523 9159 - 07	2	✓					607	
~~5/23/94~~	~~900~~		~~SH194 0523 9159 - 10~~	~~2~~							
				✓	✓						

Relinquished by: (Signature)	Date	time	Received by: (Signature)	Date	time
[signature]	5/23/94	0900	[signature]	5/23/94	0900
Relinquished by: (Signature)	Date	time	Received by: (Signature)	Date	time
Relinquished by: (Signature)	Date	time	Received for Laboratory by: (Signature)	Date	time
[signature]	5/24/94	1340	[signature]	5/24/94	1320

PROJECT CONTACT:

PHONE NUMBER:

Discrepancies Between Sample Labels and COC Record? Y or (N)
NOTES:

LABORATORY USE ONLY

Samples were: samples transferred by DEC personnel
1) Shipped ___ or Hand Delivered ✓
Airbill # ___
2) Ambient or Chilled (Cooler)
3) Recieved in Good Condition Y or (N) Space
4) Properly Preserved NA Y or N
5) Samples returned to lab: ___ hours from Collection

COC Tape was:
1) Present on Outer Package Y or (N)
2) Unbroken on Outer Package Y or (N)
3) COC Record Present and Complete Upon Sample Rec't. (Y) or N

S 0006

ORIGINAL COPY

DEC

H2M LABS, INC.

Environmental and Industrial Analytical Laboratory
575 Broad Hollow Road, Melville, N.Y. 11747-5076
(516) 694-3040
FAX: 516-694-4122

EXTERNAL CHAIN OF CUSTODY

PROJ. NO.

PROJECT NAME

SAMPLERS: (Signature)/Client

DELIVERABLES:

Refrigerator #

SAMPLE CONTAINER DESCRIPTION → 40 ML. VIAL

TOTAL NO. OF CONTAINERS ↓

NOTES: 91-1 Putcl

CASE: SHPA SDG: 0523-00 6/15/94

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	TOTAL NO. OF CONTAINERS	ORGANIC: VOA	ORGANIC: BNA	ORGANIC: Pest/PCB					INORG.: Metal	INORG.: Cn	LAB I.D. No.	REMARKS
5/23/94			Trip BLANK	2	2									9416608	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	5/23/94	0900	[signature]	5/23/94	0900
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time
[signature]	5/24/94	1300	[signature]	5/24/94	1320

PROJECT CONTACT:

PHONE NUMBER:

Discrepancies Between Sample Labels and COC Record? Y or (N)
NOTES:

LABORATORY USE ONLY

Samples were:
1)Shipped ___ or Hand Delivered ___
Airbill # ___
2)Ambient or (Chilled)
3)Recieved in Good Condition Y or (N) Head Space
4)Properly Preserved NA Y or N
5)Samples returned to lab. ___ hours from Collection

COC Tape was:
1)Present on Outer Package Y or (N)
2)Unbroken on Outer Package Y or (N)
3)COC Record Present and Complete Upon Sample Rec't. (Y) or N

S 0007

ORIGINAL COPY

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

CLIENT: NDEC AC ~~AS~~-70 ~~L/DISK~~ Page 1 of 3 CDR 5/24/94

SDG #: 0523-CO LSD 5.25.94 ~~AS-70~~ ~~NYSDEC CAT B~~

INTERNAL CHAIN OF CUSTODY

SAMPLES RECEIVED BY ~~Lucio~~ Chris Reretti DATE 5-24-94 TIME 1320

SIGNATURE

CLIENT I.D.	H2M LAB #	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
SH1940523915 9-OA MS/MSD	9416604	D	4	PUTCL ~~PUTCL 624~~ LSD 5.25
-02	605		2	
-06	606			
-07	607			
-10 TRIP BLANK	608			

COPY
ORIGINAL LOCATED: BOUND INTL COC # 53
INIT LSD DATE 6/15/94

LSD 5-24-94

PAGE No: 000181
S 0008

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

CLIENT: NDEC

SDG #: 05.23-00

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	SAMPLE I.D. NO. AND BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
5/24/94	1500	Sign	Sign	All D	analysis	
5/27/94	1400	Sign	Sign	All D	Analysis	
5/28/94	1000	Sign	Sign	H2 for 9416605-6	Analysis	
		Sign	Sign			
		Sign	Sign			
		Sign	Sign			
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		Sign	Sign			

COPY
ORIGINAL LOCATED:
FOUND INTL COC #53
INIT JRD DATE 6/15/94

PAGE No: 000182

S 0009

3. CASE NARRATIVE

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILE ORGANICS ANALYSES
SAMPLES RECEIVED: 5/19/94
SDG NO.: 0523
CASE: SH194

FOR SAMPLES: SH19405239159-0A MS/MSD
SH19405239159-02
SH19405239159-06
SH19405239159-07
TRIP BLANK

The four water samples and a trip blank were analyzed according to the requirements of the NYSDEC ASP Method 91-1. All quality control and calibration requirements were met except for the following:

Samples SH19405239159-0A and SH19405239159-02 contained targeted analytes at concentration levels above the calibration range requiring a 1:10 dilution. Both sets of data were included.

Sample SH19405239159-0A was analyzed as the matrix spike/matrix spike duplicate sample. Spiked recoveries for trichloroethene were not calculatable since the result is from the undiluted run and is above the calibration range. The RPD for 1,1-dichloroethene is 27%, the upper limit is 14% RPD. The % recovery of the MSD sample was slightly high causing the RPD to be outside the QC limits. All percent recoveries in the MSB were within QC limits.

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: June 14, 1994

****
* *
* *
****
Joann Slavin
Quality Assurance Manager

H2M LABS, INC.

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

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

and df = dilution factor

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

$$\frac{(330\ U)}{.76} \times 10 = 4300\ U$$ 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 3J.) 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.

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.

9159-0A

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH194 SAS No.: SDG No.: 0523-00

Matrix: (soil/water) WATER Lab Sample ID: 9416604-

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A01883.D

Level: (low/med) Date Received: 5/24/94

% Moisture: not dec. 100 Date Analyzed: 5/27/94

GC Column: RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	J
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	~~1~~ 10	~~J~~ U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	4	J
540-59-0	1,2-Dichloroethene (total)	640	E
67-66-3	Chloroform	7	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	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	1200	E
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	32	
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

JMH 6/11/94

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9159-0A

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 1047 Case No.: SH194 SAS No.: SDG No.: 0523-00

Matrix: (soil/water) WATER Lab Sample ID: 9416604-

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A01883.D

Level: (low/med) Date Received: 5/24/94

% Moisture: not dec. 100 Date Analyzed: 5/27/94

GC Column: RTX502.2 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.

9159-0ADL

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH194 SAS No.: SDG No.: 0523-00

Matrix: (soil/water) WATER Lab Sample ID: 9416604R

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A01890.D

Level: (low/med) Date Received: 5/24/94

% Moisture: not dec. 100 Date Analyzed: 5/27/94

GC Column: RTX502.2 ID: 0.53 (mm) Dilution Factor: 10.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	100	UD
74-83-9	Bromomethane	100	UD
75-01-4	Vinyl Chloride	100	UD
75-00-3	Chloroethane	100	UD
75-09-2	Methylene Chloride	100	UD
67-64-1	Acetone	100	UD
75-15-0	Carbon Disulfide	100	UD
75-35-4	1,1-Dichloroethene	100	UD
75-34-4	1,1-Dichloroethane	100	UD
540-59-0	1,2-Dichloroethene (total)	440	D
67-66-3	Chloroform	100	UD
107-06-2	1,2-Dichloroethane	100	UD
78-93-3	2-Butanone	100	UD
71-55-6	1,1,1-Trichloroethane	100	UD
56-23-5	Carbon Tetrachloride	100	UD
75-27-4	Bromodichloromethane	100	UD
78-87-5	1,2-Dichloropropane	100	UD
10061-01-5	cis-1,3-Dichloropropene	100	UD
79-01-6	Trichloroethene	810	D
124-48-1	Dibromochloromethane	100	UD
79-00-5	1,1,2-Trichloroethane	100	UD
71-43-2	Benzene	100	UD
10061-02-6	trans-1,3-Dichloropropene	100	UD
75-25-2	Bromoform	100	UD
108-10-1	4-Methyl-2-Pentanone	100	UD
591-78-6	2-Hexanone	100	UD
127-18-4	Tetrachloroethene	18	JD
79-34-5	1,1,2,2-Tetrachloroethane	100	UD
108-88-3	Toluene	100	UD
108-90-7	Chlorobenzene	100	UD
100-41-4	Ethylbenzene	100	UD
100-42-5	Styrene	100	UD
1330-20-7	Xylene (total)	100	UD

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9159-0ADL

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 1047 Case No.: SH194 SAS No.: SDG No.: 0523-00

Matrix: (soil/water) WATER Lab Sample ID: 9416604R

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A01890.D

Level: (low/med) Date Received: 5/24/94

% Moisture: not dec. 100 Date Analyzed: 5/27/94

GC Column: RTX502.2 ID: 0.53 (mm) Dilution Factor: 10.0

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.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9159-02

Lab Name: H2M LABS. INC. Contract: C003180

Lab Code: 10478 Case No.: SH194 SAS No.: SDG No.: 0523-00

Matrix: (soil/water) WATER Lab Sample ID: 9416605-

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A01886.D

Level: (low/med) Date Received: 5/24/94

% Moisture: not dec. 100 Date Analyzed: 5/27/94

GC Column: RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	11	
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	4	J
540-59-0	1,2-Dichloroethene (total)	640	E
67-66-3	Chloroform	7	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	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	1200	E
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	32	
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.

9159-02

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 1047 Case No.: SH194 SAS No.: SDG No.: 0523-00

Matrix: (soil/water) WATER Lab Sample ID: 9416605-

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A01886.D

Level: (low/med) Date Received: 5/24/94

% Moisture: not dec. 100 Date Analyzed: 5/27/94

GC Column: RTX502.2 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.

9159-02DL

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH194 SAS No.: SDG No.: 0523-00

Matrix: (soil/water) WATER Lab Sample ID: 9416605R

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A01895.D

Level: (low/med) Date Received: 5/24/94

% Moisture: not dec. 100 Date Analyzed: 5/31/94

GC Column: RTX502.2 ID: 0.53 (mm) Dilution Factor: 10.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
74-87-3	Chloromethane	100	UD
74-83-9	Bromomethane	100	UD
75-01-4	Vinyl Chloride	100	UD
75-00-3	Chloroethane	100	UD
75-09-2	Methylene Chloride	100	UD
67-64-1	Acetone	100	UD
75-15-0	Carbon Disulfide	100	UD
75-35-4	1,1-Dichloroethene	100	UD
75-34-4	1,1-Dichloroethane	100	UD
540-59-0	1,2-Dichloroethene (total)	520	D
67-66-3	Chloroform	100	UD
107-06-2	1,2-Dichloroethane	100	UD
78-93-3	2-Butanone	100	UD
71-55-6	1,1,1-Trichloroethane	100	UD
56-23-5	Carbon Tetrachloride	100	UD
75-27-4	Bromodichloromethane	100	UD
78-87-5	1,2-Dichloropropane	100	UD
10061-01-5	cis-1,3-Dichloropropene	100	UD
79-01-6	Trichloroethene	1100	D
124-48-1	Dibromochloromethane	100	UD
79-00-5	1,1,2-Trichloroethane	100	UD
71-43-2	Benzene	100	UD
10061-02-6	trans-1,3-Dichloropropene	100	UD
75-25-2	Bromoform	100	UD
108-10-1	4-Methyl-2-Pentanone	100	UD
591-78-6	2-Hexanone	100	UD
127-18-4	Tetrachloroethene	26	JD
79-34-5	1,1,2,2-Tetrachloroethane	100	UD
108-88-3	Toluene	100	UD
108-90-7	Chlorobenzene	100	UD
100-41-4	Ethylbenzene	100	UD
100-42-5	Styrene	100	UD
1330-20-7	Xylene (total)	100	UD

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9159-02DL

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 1047 Case No.: SH194 SAS No.: SDG No.: 0523-00

Matrix: (soil/water) WATER Lab Sample ID: 9416605R

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A01895.D

Level: (low/med) Date Received: 5/24/94

% Moisture: not dec. 100 Date Analyzed: 5/31/94

GC Column: RTX502.2 ID: 0.53 (mm) Dilution Factor: 10.0

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

Concentration Units:

Number TICs found: 0 (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9159-06

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH194 SAS No.: SDG No.: 0523-00

Matrix: (soil/water) WATER Lab Sample ID: 9416606-

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A01887.D

Level: (low/med) Date Received: 5/24/94

% Moisture: not dec. 100 Date Analyzed: 5/27/94

GC Column: RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		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)	23	
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	8	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	24	
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.

9159-06

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 1047 Case No.: SH194 SAS No.: SDG No.: 0523-00

Matrix: (soil/water) WATER Lab Sample ID: 9416606-

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A01887.D

Level: (low/med) Date Received: 5/24/94

% Moisture: not dec. 100 Date Analyzed: 5/27/94

GC Column: RTX502.2 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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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9159-07

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH194 SAS No.: SDG No.: 0523-00

Matrix: (soil/water) WATER Lab Sample ID: 9416607-

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A01888.D

Level: (low/med) Date Received: 5/24/94

% Moisture: not dec. 100 Date Analyzed: 5/27/94

GC Column: RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		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)	13	
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	5	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	40	
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.

9159-07

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 1047 Case No.: SH194 SAS No.: SDG No.: 0523-00

Matrix: (soil/water) WATER Lab Sample ID: 9416607-

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A01888.D

Level: (low/med) Date Received: 5/24/94

% Moisture: not dec. 100 Date Analyzed: 5/27/94

GC Column: RTX502.2 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.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9159-10TRIP BLAN

Lab Name: H2M LABS. INC. Contract: C003180

Lab Code: 10478 Case No.: SH194 SAS No.: SDG No.: 0523-00

Matrix: (soil/water) WATER Lab Sample ID: 9416608-

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A01889.D

Level: (low/med) Date Received: 5/24/94

% Moisture: not dec. 100 Date Analyzed: 5/27/94

GC Column: RTX502.2 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
75-34-4	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
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.

9159-10TRIPBLAN

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 1047 Case No.: SH194 SAS No.: SDG No.: 0523-00

Matrix: (soil/water) WATER Lab Sample ID: 9416608-

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A01889.D

Level: (low/med) Date Received: 5/24/94

% Moisture: not dec. 100 Date Analyzed: 5/27/94

GC Column: RTX502.2 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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5. SURROGATE SPIKE ANALYSIS RESULTS

5.1 VOLATILES

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH194 SAS No.: _____ SDG No. 0523-00

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER #	TOT OUT
01	VBLK19	101	96	95		
02	MSB27	100	96	95		
03	9159-0A	100	95	98		
04	9159-0AMS	100	96	101		
05	9159-0AMSD	101	95	102		
06	9159-02	101	94	98		
07	9159-06	102	95	96		
08	9159-07	101	93	96		
09	9159-10TRIP BL	100	93	95		
10	9159-0ADL	101	91	96		
11	VBLK20	100	93	90		
12	9159-02DL	100	93	92		
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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

D System Monitoring Compound diluted out

H2M LABS, INC.

6. MATRIX SPIKE / MATRIX SPIKE DUPLICATE SUMMARY

6.1 VOLATILES

WATER VOLATILE MATRIX SPIKE BLANK FORM

Lab Name:H2M Contract:.NYSDEC

Lab Code: 10478 Case No.: SH194 SAS No.:. SDG No.: 0523-00

Matrix Spike - EPA Sample No.: MSB5/27/94

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	0.00	53.	106	61-145
Trichloroethene	50.0	0.00	46.	92	71-120
Benzene	50.0	0.00	50.	100	76-127
Toluene	50.0	0.00	51.	102	76-125
Chlorobenzene	50.0	0.00	52.	104	75-130

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

* Values outside of qc limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS: A01882.D 5/27/94.

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH194 SAS No.: _____ SDG No.: 0523-00

Matrix Spike - EPA Sample No.: 9159-0A

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	41	82	(61-145)
Trichloroethene	50	1200	1000	-400 *	(71-120)
Benzene	50	0	41	82	(76-127)
Toluene	50	0	41	82	(76-125)
Chlorobenzene	50	0	45	90	(75-130)

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MS % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	54	108	27 *	14	(61-145)
Trichloroethene	50	1000	-400*	0	14	(71-120)
Benzene	50	46	92	11	11	(76-127)
Toluene	50	46	92	11	13	(76-125)
Chlorobenzene	50	47	94	4	13	(75-130)

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

* Values outside of QC limits

RPD: 1 out of 5 outside limits
Spike Recovery: 2 out of 10 outside limits

Comments: _____

7. BLANK SUMMARY DATA AND RESULTS

7.1 VOLATILES

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK19

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH194 SAS No.: SDG No.: 0523-00

Lab File ID: A01881.D Lab Sample ID: VBLK5/27

Date Analyzed: 5/27/94 Time Analyzed: 1700

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5971

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MSB27	MSB5/27	A01882.D	1735
02	9159-0A	9416604-	A01883.D	1808
03	9159-0AMS	9416604M	A01884.D	1905
04	9159-0AMSD	9416604D	A01885.D	1928
05	9159-02	9416605-	A01886.D	1951
06	9159-06	9416606-	A01887.D	2015
07	9159-07	9416607-	A01888.D	2038
08	9159-10TRIP BLAN	9416608-	A01889.D	2102
09	9159-0ADL	9416604R	A01890.D	2125
10				
11				
12				
13				
14				
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COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK20

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH194 SAS No.: SDG No.: 0523-00

Lab File ID: A01893.D Lab Sample ID: VBLK5/31

Date Analyzed: 5/31/94 Time Analyzed: 1109

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5971

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	9159-02DL	9416605R	A01895.D	1202
02				
03				
04				
05				
06				
07				
08				
09				
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11				
12				
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COMMENTS:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK19

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH194 SAS No.: SDG No.: 0523-00

Matrix: (soil/water) WATER Lab Sample ID: VBLK5/27

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A01881.D

Level: (low/med) Date Received: 5/24/94

% Moisture: not dec. 100 Date Analyzed: 5/27/94

GC Column: RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.0

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

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		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
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.

VBLK19

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 1047 Case No.: SH194 SAS No.: SDG No.: 0523-00

Matrix: (soil/water) WATER Lab Sample ID: VBLK5/27

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A01881.D

Level: (low/med) Date Received: 5/24/94

% Moisture: not dec. 100 Date Analyzed: 5/27/94

GC Column: RTX502.2 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.

VBLK20

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH194 SAS No.: SDG No.: 0523-00

Matrix: (soil/water) WATER Lab Sample ID: VBLK5/31

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A01893.D

Level: (low/med) Date Received: 5/24/94

% Moisture: not dec. 100 Date Analyzed: 5/31/94

GC Column: RTX502.2 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
75-34-4	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
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.

VBLK20

Lab Name: H2M LABS, INC. Contract: C003180

Lab Code: 1047 Case No.: SH194 SAS No.: SDG No.: 0523-00

Matrix: (soil/water) WATER Lab Sample ID: VBLK5/31

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A01893.D

Level: (low/med) Date Received: 5/24/94

% Moisture: not dec. 100 Date Analyzed: 5/31/94

GC Column: RTX502.2 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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H2M LABS, INC.

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.: SH194 SAS No.: SDG No.: 0523-00

Lab File ID (Standard): A01880.D Date Analyzed: 5/27/94

Instrument ID: HP5971 Time Analyzed: 1608

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	12 HOUR STD	41088	8.51	192002	9.09	158487	11.65
	UPPER LIMIT	82176	9.01	384004	9.59	316974	12.15
	LOWER LIMIT	20544	8.01	96001	8.59	79244	11.15
	EPA SAMPLE NO.						
01	VBLK19	40219	8.50	195322	9.09	158409	11.65
02	MSB27	39937	8.50	192558	9.09	156912	11.64
03	9159-0A	40027	8.50	198119	9.09	160879	11.64
04	9159-0AMS	38992	8.51	200410	9.09	164696	11.65
05	9159-0AMSD	38350	8.51	200701	9.09	164550	11.65
06	9159-02	40622	8.50	198492	9.09	161988	11.64
07	9159-06	40437	8.50	198427	9.09	161165	11.64
08	9159-07	40197	8.50	193873	9.09	157452	11.64
09	9159-10TRIP BLANK	40453	8.50	195349	9.09	160921	11.64
10	9159-0ADL	39669	8.49	192208	9.09	156864	11.64
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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: H2M LABS, INC. Contract: C003180

Lab Code: 10478 Case No.: SH194 SAS No.: SDG No.: 0523-00

Lab File ID (Standard): A01892.D Date Analyzed: 5/31/94

Instrument ID: HP5971 Time Analyzed: 1038

GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	12 HOUR STD	39812	8.50	199991	9.09	162287	11.63
	UPPER LIMIT	79624	9.00	399982	9.59	324574	12.13
	LOWER LIMIT	19906	8.00	99996	8.59	81144	11.13
	EPA SAMPLE NO.						
01	VBLK20	39618	8.49	194412	9.08	156791	11.63
02	9159-02DL	38650	8.49	191041	9.08	155626	11.61
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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.

S 0043