Nov 1998

Dameco

Off site

GW

Analytical Data Package For

NYS DEC
CONTRACT NO.:C003786
CASE NO.: SH198
SDG NO.: 1118

Spoes leach.
Pool
Soil

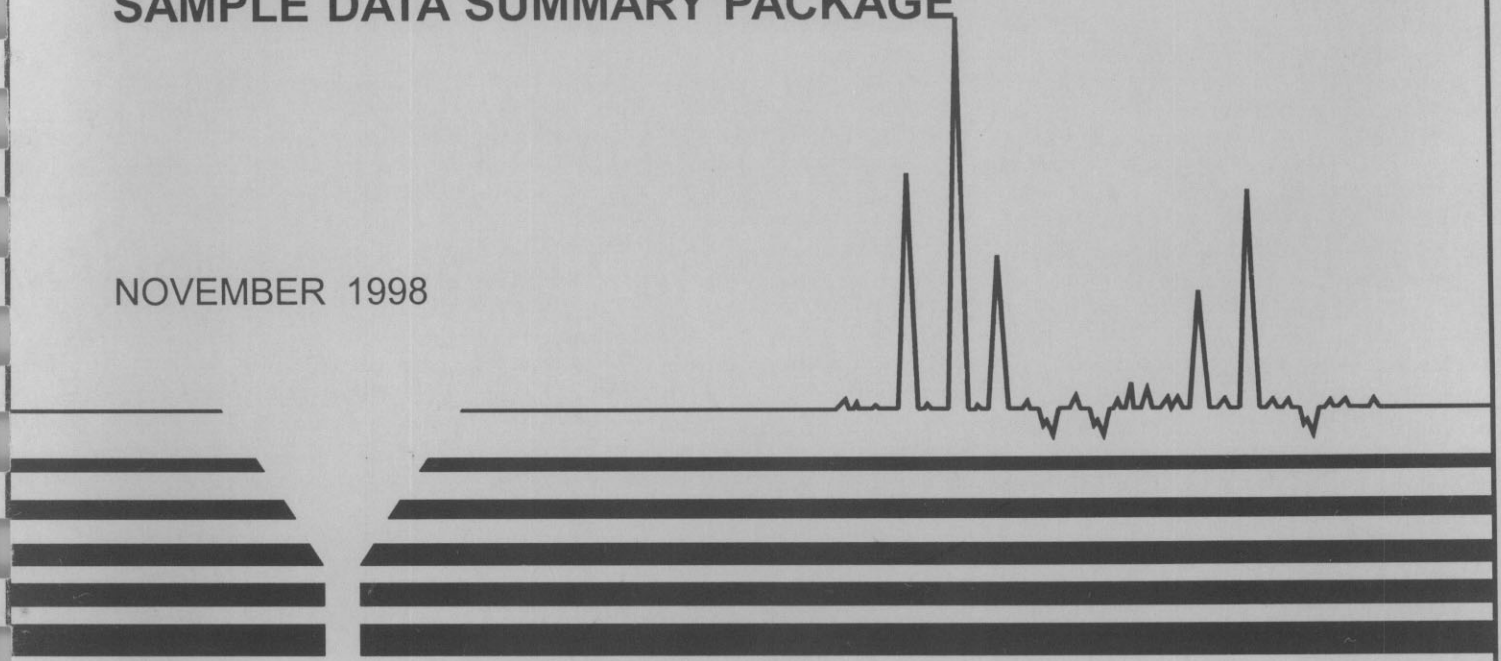
RI/FS

Water Samples
RECEIVED: November 20, 1998

IRM Confirm
55

SAMPLE DATA SUMMARY PACKAGE

NOVEMBER 1998



H2M LABS, INC.

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

H2M LABS, INC.

SAMPLE DATA SUMMARY PACKAGE

TABLE OF CONTENTS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
REGION 1
CONTRACT: C003786
CASE: SH198
SAMPLES RECEIVED: 11/20/98
1118

1. NYS DEC SUMMARY FORMS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
SAMPLES RECEIVED: 11/20/98
CONTRACT #: C003786
CASE: SH198
SDG: 1118

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*VOA GC	*PEST PCB	*METALS	OTHER
9195GF	9837659	X					
9195GG	9837660	X					
9195G3	9837661	X					
9195P1 (MS/MSD metals only)	9837662					X	
9195P2	9837663					X	
9195E1 (MS/MSD metals only)	9837664	X				X	
9195W2	9837665	X				X	
91952A	9837666	X					
91952B	9837667	X					
919525 (MS/MSD CN only)	9837668	X				X	

* Check Appropriate Boxes

* CLP, Non-CLP (Please indicate year of protocol) 1994
* TCL/TAL, HSL, Priority Pollutant
+ TCLP Metals

Sample Analysis Summary Form

Sample ID	Matrix	Date Collected	Date Received	Level	Date Analyzed
G3	soil	18-Nov-98	20-Nov-98	LOW	21-Nov-98
G3DL	soil	18-Nov-98	20-Nov-98	LOW	21-Nov-98
GF	soil	18-Nov-98	20-Nov-98	LOW	21-Nov-98
GG	soil	18-Nov-98	20-Nov-98	LOW	21-Nov-98
GGDL	soil	18-Nov-98	20-Nov-98	LOW	21-Nov-98

Sample Analysis Summary Form

Sample ID	Matrix	Date Collected	Date Received	Level	Date Analyzed
2A	water	19-Nov-98	20-Nov-98	LOW	25-Nov-98
2B	water	19-Nov-98	20-Nov-98	LOW	25-Nov-98
2S	water	18-Nov-98	20-Nov-98	LOW	25-Nov-98
E1	water	18-Nov-98	20-Nov-98	LOW	25-Nov-98
W2	water	18-Nov-98	20-Nov-98	LOW	25-Nov-98

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSES
SAMPLES RECEIVED: 11/20/98
CONTRACT #: C003786
CASE: SH198
SDG: 1118

SAMPLE ID	MATRIX	METALS REQUESTED	DATE RECEIVED	DATE * ANALYZED
9195P1 MS/MSD	SOIL	TAL METALS	11/20/98	11/98 - 1/99
9195P2	"	"	"	"
9195E1 MS//MSD	WATER	TAL METALS + CN	"	"
9195W2	"	"	"	"
919525 (MS/MSD for CN)	"	"	"	"

* SEE INDIVIDUAL RUN SHEETS FOR EXACT DATES.

S 0006

2. CHAIN OF CUSTODY DOCUMENTATION

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

№ 10776 EXTERNAL CHAIN OF CUSTODY

CLIENT: NDEC

H2M SDG NO:

PROJECT NAME/NUMBER: NYSDEC

SAMPLERS: (signature)/Client: Jamie Ascher / Jamie Ascher

DELIVERABLES:

TURNAROUND TIME:

Project Contact:

Phone Number:

NOTES:

COPY
ORIGINAL LOCATED
CS F OF
CASE: SH198 SDG: 1118
DATE 1/19/98

Sample Container Description: 40ml. vial-HCl (VOA); Liter plastic-HNO3 (Metal)

DATE	TIME	MATRIX	FIELD I.D.		Total No. of Containers	VOA	BNA	Pest/PCB						Metal	CN	LAB I.D. NO.	REMARKS:
~~[illegible]~~					~~3~~	~~2~~								#			
11/18/98	1140	Soil	SH1981118 9195GG	2	1	1										↑ 660	
11/18/98	1105	Soil	SH19811189195 GF	1	1	1										9837659	
11/18/98	1000	Soil	SH19811189195 G3	3	1	1										661	
11/18/98	1120	Soil	SH1981118 9195 P2	5	1									1		↓ 663	
11/18/98	1105	Soil	SH1981118 9195 P1	4	1									1		9837662	
11/18/98	1350	GW	SH1981118 9195 25	5	4	2								1	1	↑ 668	
11/18/98	1335	GW	SH1981118 9195 W2	2	4	2								1	1	665	
11/18/98	1350	GW	SH19811189195 E1	1	4	2								1	1	9837664	
11/19/98	1200	GW	SH198111991952B	4	2	2										↓ 667	
11/19/98	1130	GW	SH19811199195 2A	3	2	2										9837666	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nicole Reiss	11/16/98	1700			
~~Relinquished by: (Signature)~~					
~~Relinquished by: (Signature)~~					
[signature]	11/20/98	1235	[signature]	11/20/98	12:35

LABORATORY USE ONLY

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

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# ______
2. Ambient or (Chilled) 2.6°
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N
5. Samples returned to lab ___ Hrs 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 & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: NDEC DELIVERABLES: CS-70 TURN AROUND TIME Std.

SDG #: 1118 CASE #: _____ MATRIX: SO/GW pH CHECK Y or (N)

REMARKS: _____

RECEIVED BY: NJRBMW SIGNATURE [signature] DATE 11/20/98 TIME: 12:35

NJR 11-20

	CLIENT I.D.	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1	SH19811189195 GF	9837659	11-18-98	A	1	PUTCL
2	GG	6600				
3	G3	6601				
4	E1	6604		DH	2	
5	W2	6605				
6	2A	6606	11-19-98			
7	2B	6607				
8	25	6608	11-18-98			
9						
10						
11						
12						
13			NJR			
14			11/20/98			
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17						
18						
19						
20						

COPY ORIGINAL LOCATED BOUND INTL COC

INIT [illegible] DATE 1/19/99

P 0256

S 0009

H2M LABS, INC.

CLIENT: NDEC

SDG #: 1118

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT.
11/20/98	1600	SIGN [signature]	SIGN [signature]	A, DH	analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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BOUND INT'L COC
INIT [initials] DATE 1/19/99

H2M LABS, INC.

FOLDER 1

INTERNAL CHAIN OF CUSTODY

CLIENT: NJDEC DELIVERABLES: CS-70 TURN AROUND TIME Std.

SDG #: 1118 CASE #: SH198 MATRIX: SO/GW pH CHECK Y or N

REMARKS:

RECEIVED BY: BMW SIGNATURE: [signature] DATE 11/20/98 TIME: 12:35

	CLIENT I.D.	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1	SH198 1118 9195 P1	98376062	11-18-98	A	1	TAL metals
2	P2	6063		↓		
3	E1	6064		EN		
4	W2	6065				
5	25	6068				
6						
7						
8						
9						
10						
11			NJR			
12			11/20/98			
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INIT XD DATE 1/19 199

P 0121

S 0011

H2M LABS, INC.

CLIENT: NDEC

SDG #: 1118

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BOUND INT'L COC
INIT [illegible] DATE 1/19/99

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT.
11/23/98	1000	SIGN [signature]	SIGN [signature]	A, EN	analysis	
11/25/98	1430	SIGN [signature]	SIGN [signature]	All A	T.S.	
11/25/98	1615	SIGN [signature]	SIGN [signature]	All A	Storage	
12/8/98	8:30	SIGN [signature]	SIGN [signature]	all A + EN	Degestion	
12/8/98	15:20	SIGN [signature]	SIGN [signature]	All A, [illegible]	storage	
12/11/98	8:30	SIGN [signature]	SIGN [signature]	all A + E_N	Hg prep	
12/11/98	9:30	SIGN [signature]	SIGN [signature]	all A + E_N	storage	
12/11/98	1710	SIGN [signature]	SIGN Cabinet B	All Digs	storage	
12/12/98	9:30	SIGN Cabinet B	SIGN [signature]	All flt digs	ICP (Dual View)	
12/12/98	14:30	SIGN [signature]	SIGN Cabinet B	All flt digs	Storage	
12/14/98	6:15	SIGN [signature]	SIGN [signature]	all BOD	Hg analysis	
12/14/98	10:00	SIGN Cabinet FB	SIGN [signature]	All flt digs	ICP (Dual View)	
12/14/98	16:00	SIGN [signature]	SIGN Cabinet FB	All flt digs	Storage	
12/22/98	1600	SIGN [signature]	SIGN [signature]	All A + EN [illegible]	Final storage	
1/7/99	1400	SIGN [signature]	SIGN [signature]	662A	storage	
1/8/99	1530	SIGN Philip J Remi	SIGN Daniel White	All A 662	Redigestion	
1/8/99	2100	SIGN Daniel White	SIGN Digcab	All A 662 + Redig	storage	
1/1/99	1625	SIGN Philip J Remi	SIGN Philip J Remi	Redig 662 + SD	Re-analysis	
1/1/99	2100	SIGN Philip J Remi	SIGN Philip J Remi	Redig 662 + SD	storage	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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H2M LABS, INC.

Put TS in TS folder
Put CN in Metals folder

INTERNAL CHAIN OF CUSTODY

CLIENT: NDEC DELIVERABLES: CS-70 TURN AROUND TIME Std.

SDG #: 1118 CASE #: SH198 MATRIX: SO/GW pH CHECK (Y) or N

REMARKS: * in custody of GCMS * in custody of metals

RECEIVED BY: AJR BMW SIGNATURE: ~~Nicole Riley~~ DATE 11/20/98 TIME: 12:35

AJR 11-20 ~~BMW~~

	CLIENT I.D.	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1	3H1981118 9195 GF	9837659	11-18-98	*	*	TS
2	GG	660				
3	G3	661				
4	P1	662		*	*	
5	P2	663				
6	E1	664		FS	1	CN
7	N2	665				
8	25	668				
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13			AJR			
14			11/20/98			
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BOUND INTL COC
INIT DATE 1/19/99

P 0289

S 0013

H2M LABS, INC.

CLIENT: NDEC

SDG #: 1118

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEVIED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT.
11/20/98	14.10	SIGN [signature]	SIGN [signature]	FS	analysis	
11/25/98	8.30	SIGN [signature]	SIGN [signature]	All FS	CN	
11/25/98	10.20	SIGN [signature]	SIGN [signature]	All FS	Storage	
11/25/98	17:10	SIGN Fridge # 4	SIGN [signature]	All H/S	TS/storage	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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Bound Int'l COC
INIT [initials] DATE 1/19/99

3. SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES
CONTRACT NO.: C003786
CASE NO: SH198
SDG NO: 1118
SAMPLES RECEIVED: 11/20/98

For Samples:

9195G3	91952B
9195GF	91952S
9195GG	9195E1
91952A	9195W2

The above soil and water samples were analyzed according to the requirement of the NYSDEC ASP 10/95 method 95-1 for the TCL volatile organic analytes.

No matrix spike/matrix spike duplicate was submitted.

Sample 9195G3 and 9195GG contained levels of targeted analytes above the calibration and were reanalyzed at a dilution.

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: January 12, 1999

****
* *
* *
****

Joann M. Slavin
Quality Assurance Manager

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H2M LABS, INC.

SDG NARRATIVE FOR METALS
CONTRACT NO.: C003786
CASE NO: SH198
SDG NO: 1118
SAMPLES RECEIVED: 11/20/98

For Samples:

SOILS	WATERS
9195P1 MS/MSD	9195E1 MS//MSD
9195P2	9195W2
	919525 (MS/MSD for CN)

Two soil and three water samples were received by H2M Labs, Inc. on 11/20/98 for TAL metals analysis. The waters were also analyzed for cyanide. Samples were prepared and analyzed using the following methods:

ICP analysis was performed on a TJA61E Trace Analyzer using method 200.7 CLP-M. Mercury was analyzed on a Leeman PS200 using methods 245.1 CLP-M and 245.5 CLP-M. Cyanides were performed via the manual spectrophotometric method, using midi distillation and read on a Sequoia Turner model 340 spectrophotometer (method 335.2 CLP-M).

Sample 9195P1 (9837662) was analyzed as the matrix spike/duplicate for soils. Sample 919E1 (9837664) was analyzed as the water matrix spike/duplicate for all metals except cyanide. Sample 919525 was analyzed as the cyanide matrix spike duplicate.

Due to the initial lead spike recovery of soil sample 9195P1 (9837662) a post spike should have been analyzed on the 12/14/98 ICP run. The sample was redigested with a spike and analyzed on 1/11/99 for lead only. The lead reanalysis recovered acceptably and was used for reporting.

The mercury spike analysis of water sample 9195E1 (9837664) did not recover within acceptance ranges. Mercury data were reported flagged with an "N" on Forms 1 and 5A for waters.

Duplicate analysis of sample 9195P1 (9837662) did not recover within acceptance ranges for barium. Soil barium data was reported flagged with an "*" on Forms 1 and 6.

Soil samples required dilution and reanalysis to keep instrument readings within the calibration range.

No other problems were noted.

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: January 19, 1999

****
*
* V. Stancampiano Jr. *
*
****

Vincent Stancampiano
Vice President

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4. SAMPLE REPORTS

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

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

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 700 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.

H2M LABS, INC.

QUALIFIERS FOR METALS ANALYSIS

Q (Quality Control) Qualifiers

E - The reported value is estimated because of the presence of interference. An explanatory note is included in the SDG narrative.

M - Duplicate injection precision not met.

N - Matrix spike sample recovery not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

+ - Correlation coefficient for the MSA is less than 0.995

W - Post digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

* - Duplicate analysis is not within control limits.

C (Concentration) Qualifiers

B - Entered if the reported value is less than the Contract Required Detection Limit (CRDL) but greater than the Instrument Detection Limit (IDL).

U - Entered if the analyte was analyzed for but not detected, i.e., less than the IDL.

M (Method) Qualifiers

P - Analyzed by ICP.
A - Analyzed by Flame AA.
F - Analyzed by Furnace AA.
CV - Analyzed by Manual Cold Vapor techniques.
AV - Analyzed by Automated Cold Vapor techniques.
C - Analyzed by Manual Spectrophotometric Method.
CA- Analyzed by Midi-distillation Spectrophotometric Method.
NR - Analyte not Required.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GF

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: SDG No.: 1118

Matrix: (soil/water) SOIL Lab Sample ID: 9837659

Sample wt/vol: 5.0 (g/ml) G Lab File ID: A21102.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. 6 Date Analyzed: 11/21/98

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

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

CONCENTRATION UNITS:

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

CAS NO.	COMPOUND		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	2	J
67-64-1	Acetone	6	J
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
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	
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	3	J
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GF

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: SDG No.: 1118

Matrix: (soil/water) SOIL Lab Sample ID: 9837659

Sample wt/vol: 5.0 (g/ml) G Lab File ID: A21102.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. 6 Date Analyzed: 11/21/98

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: 10

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000109-60-4	n-Propyl acetate	10.98	16	JN
2.	unknown hydrocarbon	17.37	9	J
3.	unknown(sus.column bleed)	17.64	58	J
4.	unknown hydrocarbon	17.73	14	J
5.	unknown hydrocarbon	17.87	17	J
6.	unknown cyclic	17.91	13	J
7.	unknown cyclic	18.14	11	J
8.	c4 subs.benzene	18.45	10	J
9.	c4 subs.benzene	18.89	9	J
10.	c4 subs.benzene	19.54	23	J

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
9195P1

Lab Name: H2M_LABS,_INC. Contract: C003786

Lab Code: H2MLAB Case No.: SH198 SAS No.: SDG No.: 1118

Matrix (soil/water): SOIL Lab Sample ID: 9837662

Level (low/med): LOW Date Received: 11/20/98

% Solids: 85.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	638			P
7440-36-0	Antimony	127			P
7440-38-2	Arsenic	5.0			P
7440-39-3	Barium	307		*	P
7440-41-7	Beryllium	0.049	U		P
7440-43-9	Cadmium	0.049	U		P
7440-70-2	Calcium	772	B		P
7440-47-3	Chromium	17500			P
7440-48-4	Cobalt	4.9	B		P
7440-50-8	Copper	1900			P
7439-89-6	Iron	1960			P
7439-92-1	Lead	296			P
7439-95-4	Magnesium	225	B		P
7439-96-5	Manganese	21.5			P
7439-97-6	Mercury	0.056	U		CV
7440-02-0	Nickel	13300			P
7440-09-7	Potassium	68.9	B		P
7782-49-2	Selenium	0.58	U		P
7440-22-4	Silver	0.14	U		P
7440-23-5	Sodium	23.8	B		P
7440-28-0	Thallium	4.2			P
7440-62-2	Vanadium	7.1	B		P
7440-66-6	Zinc	3440			P
	Cyanide				NR

Color Before: BLACK Clarity Before: Texture: FINE

Color After: GREEN Clarity After: CLEAR Artifacts:

Comments:
SH198-1118-9195P1
REPORTED_1/13/99

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GG

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: SDG No.: 1118

Matrix: (soil/water) SOIL Lab Sample ID: 9837660

Sample wt/vol: 5.0 (g/ml) G Lab File ID: A21103.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. 5 Date Analyzed: 11/21/98

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

CAS NO.	COMPOUND		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	2	J
67-64-1	Acetone	6	J
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)	2	J
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	500	E
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	47	
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.

GG

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: SDG No.: 1118

Matrix: (soil/water) SOIL Lab Sample ID: 9837660

Sample wt/vol: 5.0 (g/ml) G Lab File ID: A21103.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. 5 Date Analyzed: 11/21/98

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: 10

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001634-04-4	Propane, 2-methoxy-2-methyl-	7.91	55	JN
2.	unknown cyclic	17.69	29	J
3.	unknown hydrocarbon	17.82	28	J
4.	unknown cyclic	17.90	22	J
5.	unknown cyclic	18.13	28	J
6.	c4 subs.benzene	18.34	11	J
7.	unknown hydrocarbon	18.47	19	J
8.	unknown hydrocarbon	18.68	16	J
9. 000281-23-2	Adamantane	18.83	20	JN
10.	unknown	18.93	22	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GGDL

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: _____ SDG No.: 1118

Matrix: (soil/water) SOIL Lab Sample ID: 9837660DL

Sample wt/vol: 1.0 (g/ml) G Lab File ID: A21106.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. 5 Date Analyzed: 11/21/98

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

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	53	U
74-83-9	Bromomethane	53	U
75-01-4	Vinyl Chloride	53	U
75-00-3	Chloroethane	53	U
75-09-2	Methylene Chloride	9	J
67-64-1	Acetone	14	J
75-15-0	Carbon Disulfide	53	U
75-35-4	1,1-Dichloroethene	53	U
75-34-4	1,1-Dichloroethane	53	U
540-59-0	1,2-Dichloroethene (total)	53	U
78-93-3	2-Butanone	13	J
67-66-3	Chloroform	53	U
107-06-2	1,2-Dichloroethane	53	U
71-55-6	1,1,1-Trichloroethane	53	U
56-23-5	Carbon Tetrachloride	53	U
75-27-4	Bromodichloromethane	53	U
78-87-5	1,2-Dichloropropane	53	U
10061-01-5	cis-1,3-Dichloropropene	53	U
79-01-6	Trichloroethene	490	
71-43-2	Benzene	53	U
124-48-1	Dibromochloromethane	53	U
10061-02-6	trans-1,3-Dichloropropene	53	U
79-00-5	1,1,2-Trichloroethane	53	U
75-25-2	Bromoform	53	U
108-10-1	4-Methyl-2-Pentanone	16	J
591-78-6	2-Hexanone	29	J
127-18-4	Tetrachloroethene	42	J
79-34-5	1,1,2,2-Tetrachloroethane	53	U
108-88-3	Toluene	53	U
108-90-7	Chlorobenzene	53	U
100-41-4	Ethylbenzene	53	U
100-42-5	Styrene	53	U
1330-20-7	Xylene (total)	53	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

GGDL

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: SDG No.: 1118

Matrix: (soil/water) SOIL Lab Sample ID: 9837660DL

Sample wt/vol: 1.0 (g/ml) G Lab File ID: A21106.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. 5 Date Analyzed: 11/21/98

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. 001634-04-4	Propane, 2-methoxy-2-methyl-	8.04	41	JN

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

G3

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: SDG No.: 1118

Matrix: (soil/water) SOIL Lab Sample ID: 9837661

Sample wt/vol: 5.0 (g/ml) G Lab File ID: A21104.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. 1 Date Analyzed: 11/21/98

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

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

CONCENTRATION UNITS:

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

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	2	J
67-64-1	Acetone	34	
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)	480	E
78-93-3	2-Butanone	13	
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	35	
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	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	4	J
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.

G3

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: SDG No.: 1118

Matrix: (soil/water) SOIL Lab Sample ID: 9837661

Sample wt/vol: 5.0 (g/ml) G Lab File ID: A21104.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. 1 Date Analyzed: 11/21/98

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: 2

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000080-56-8	.alpha.-Pinene	16.17	5	JN
2.	c4 subs.benzene	17.60	23	J

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
9195P2

Lab Name: H2M_LABS,_INC. Contract: C003786

Lab Code: H2MLAB Case No.: SH198 SAS No.: SDG No.: 1118

Matrix (soil/water): SOIL Lab Sample ID: 9837663

Level (low/med): LOW Date Received: 11/20/98

% Solids: 58.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1460			P
7440-36-0	Antimony	233			P
7440-38-2	Arsenic	9.4			P
7440-39-3	Barium	561		*	P
7440-41-7	Beryllium	0.072	U		P
7440-43-9	Cadmium	0.072	U		P
7440-70-2	Calcium	1230	B		P
7440-47-3	Chromium	31700			P
7440-48-4	Cobalt	8.0	B		P
7440-50-8	Copper	4760			P
7439-89-6	Iron	5310			P
7439-92-1	Lead	684			P
7439-95-4	Magnesium	331	B		P
7439-96-5	Manganese	31.7			P
7439-97-6	Mercury	0.082	B		CV
7440-02-0	Nickel	20600			P
7440-09-7	Potassium	85.6	B		P
7782-49-2	Selenium	0.85	U		P
7440-22-4	Silver	0.39	B		P
7440-23-5	Sodium	65.5	B		P
7440-28-0	Thallium	7.3			P
7440-62-2	Vanadium	17.7			P
7440-66-6	Zinc	6800			P
	Cyanide				NR

Color Before: BLACK Clarity Before: Texture: FINE

Color After: GREEN Clarity After: CLEAR Artifacts:

Comments:
SH198-1118-9195P2
REPORTED_1/13/99

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

E1

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: SDG No.: 1118

Matrix: (soil/water) WATER Lab Sample ID: 9837664

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A21139.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. Date Analyzed: 11/25/98

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/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
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	
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.

E1

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: SDG No.: 1118

Matrix: (soil/water) WATER Lab Sample ID: 9837664

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A21139.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. Date Analyzed: 11/25/98

GC Column: RTX502. 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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

NYSDEC - ASP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

9195E1

Lab Name: H2M_LABS,_INC._____ Contract: C003786___

Lab Code: H2MLAB_ Case No.: SH198_ SAS No.: _____ SDG No.: 1118___

Matrix (soil/water): WATER___ Lab Sample ID: 9837664_____

Level (low/med): LOW____ Date Received: 11/20/98_

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L__

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	61300			P
7440-36-0	Antimony	57.6	B		P
7440-38-2	Arsenic	7.3	B		P
7440-39-3	Barium	2940			P
7440-41-7	Beryllium	2.9	B		P
7440-43-9	Cadmium	0.75	B		P
7440-70-2	Calcium	28300			P
7440-47-3	Chromium	7490			P
7440-48-4	Cobalt	9.8	B		P
7440-50-8	Copper	10900			P
7439-89-6	Iron	21900			P
7439-92-1	Lead	188			P
7439-95-4	Magnesium	3980	B		P
7439-96-5	Manganese	896			P
7439-97-6	Mercury	3.4		N	CV
7440-02-0	Nickel	726			P
7440-09-7	Potassium	3030	B		P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.61	U		P
7440-23-5	Sodium	10700			P
7440-28-0	Thallium	6.9	B		P
7440-62-2	Vanadium	30.9	B		P
7440-66-6	Zinc	1410			P
	Cyanide	10.0	U		CA

Color Before: COLORLESS_ Clarity Before: CLEAR__ Texture: _____

Color After: YELLOW____ Clarity After: CLEAR__ Artifacts: _____

Comments:

SH198-1118-9195E1

REPORTED_1/13/99

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W2

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: SDG No.: 1118

Matrix: (soil/water) WATER Lab Sample ID: 9837665

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A21140.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. Date Analyzed: 11/25/98

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/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)	45	
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	51	
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	16	
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.

W2

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: SDG No.: 1118

Matrix: (soil/water) WATER Lab Sample ID: 9837665

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A21140.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. Date Analyzed: 11/25/98

GC Column: RTX502. 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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

9195W2

Lab Name: H2M_LABS,_INC._____ Contract: C003786___

Lab Code: H2MLAB_ Case No.: SH198_ SAS No.: _____ SDG No.: 1118___

Matrix (soil/water): WATER__ Lab Sample ID: 9837665_____

Level (low/med): LOW____ Date Received: 11/20/98__

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L__

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1930			P
7440-36-0	Antimony	3.7	B		P
7440-38-2	Arsenic	1.8	B		P
7440-39-3	Barium	214			P
7440-41-7	Beryllium	0.21	U		P
7440-43-9	Cadmium	0.21	U		P
7440-70-2	Calcium	28600			P
7440-47-3	Chromium	201			P
7440-48-4	Cobalt	39.0	B		P
7440-50-8	Copper	384			P
7439-89-6	Iron	2680			P
7439-92-1	Lead	9.2			P
7439-95-4	Magnesium	5030			P
7439-96-5	Manganese	7630			P
7439-97-6	Mercury	0.11	U	N	CV
7440-02-0	Nickel	15600			P
7440-09-7	Potassium	5900			P
7782-49-2	Selenium	4.4	B		P
7440-22-4	Silver	0.61	U		P
7440-23-5	Sodium	43700			P
7440-28-0	Thallium	14.4			P
7440-62-2	Vanadium	2.9	B		P
7440-66-6	Zinc	345			P
	Cyanide	10.0	U		CA

Color Before: COLORLESS_ Clarity Before: CLEAR__ Texture: _____

Color After: COLORLESS_ Clarity After: CLEAR__ Artifacts: _____

Comments:

SH198-1118-9195W2_____
REPORTED_1/13/99_____

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2A

Lab Name: H2M LABS, INC. Contract: C103786

Lab Code: 10478 Case No.: NDEC SAS No.: SDG No.: 1118

Matrix: (soil/water) WATER Lab Sample ID: 9837666

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A21141.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. Date Analyzed: 11/25/98

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/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
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
1006[illegible]-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
100[illegible]1-02-6	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.

2A

Lab Name: H2M LABS, INC. Contract: C103786

Lab Code: 10478 Case No.: NDEC SAS No.: SDG No.: 1118

Matrix: (soil/water) WATER Lab Sample ID: 9837666

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A21141.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. Date Analyzed: 11/25/98

GC Column: RTX502. 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

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown benzene	9.14	5	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2B

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: _____ SDG No.: 1118

Matrix: (soil/water) WATER Lab Sample ID: 9837667

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A21144.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. _____ Date Analyzed: 11/25/98

GC Column: RTX502. 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
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
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.

2B

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: _____ SDG No.: 1118

Matrix: (soil/water) WATER Lab Sample ID: 9837667

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A21144.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. _____ Date Analyzed: 11/25/98

GC Column: RTX502. 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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2S

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: SDG No.: 1118

Matrix: (soil/water) WATER Lab Sample ID: 9837668

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A21145.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. Date Analyzed: 11/25/98

GC Column: RTX502. 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
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
1006 -01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	7	J
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
100(1-02-6	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.

2S

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: _____ SDG No.: 1118

Matrix: (soil/water) WATER Lab Sample ID: 9837668

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A21145.D

Level: (low/med) LOW Date Received: 11/20/98

% Moisture: not dec. _____ Date Analyzed: 11/25/98

GC Column: RTX502. 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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
919525

Lab Name: H2M_LABS,_INC._____ Contract: C003786___

Lab Code: H2MLAB_ Case No.: SH198_ SAS No.: _____ SDG No.: 1118___

Matrix (soil/water): WATER___ Lab Sample ID: 9837668_____

Level (low/med): LOW_____ Date Received: 11/20/98__

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L__

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	936			P
7440-36-0	Antimony	5.5	B		P
7440-38-2	Arsenic	3.2	B		P
7440-39-3	Barium	92.6	B		P
7440-41-7	Beryllium	0.21	U		P
7440-43-9	Cadmium	0.21	U		P
7440-70-2	Calcium	11700			P
7440-47-3	Chromium	358			P
7440-48-4	Cobalt	7.9	B		P
7440-50-8	Copper	70.1			P
7439-89-6	Iron	1210			P
7439-92-1	Lead	3.5			P
7439-95-4	Magnesium	2100	B		P
7439-96-5	Manganese	367			P
7439-97-6	Mercury	0.11	U	N	CV
7440-02-0	Nickel	134			P
7440-09-7	Potassium	2440	B		P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.61	U		P
7440-23-5	Sodium	10400			P
7440-28-0	Thallium	4.7	B		P
7440-62-2	Vanadium	2.5	B		P
7440-66-6	Zinc	73.8			P
	Cyanide	10.0	U		CA

Color Before: COLORLESS_ Clarity Before: CLEAR__ Texture: _____

Color After: COLORLESS_ Clarity After: CLEAR__ Artifacts: _____

Comments:
SH198-1118-919525
REPORTED_1/13/99

5. SURROGATE SPIKE ANALYSIS RESULTS

5.1 VOLATILES

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: _____ SDG No.: 1118

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	TOT OUT
01	VBLK11/25/98	93	101	105	0
02	E1	96	99	102	0
03	W2	94	101	103	0
04	2A	93	106	101	0
05	2B	93	101	99	0
06	2S	96	98	103	0

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

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: _____ SDG No.: 1118

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	TOT OUT
01	VBLK11/21/98	92	102	99	0
02	GF	94	102	94	0
03	GG	91	104	94	0
04	G3	90	120	86	0
05	GGDL	89	104	99	0
06	G3DL	89	104	96	0

				QC LIMITS
SMC1	(DCE)	=	1,2-Dichloroethane-d4	(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. DUPLICATE SAMPLE RESULTS

6.1 METALS

NYSDEC - ASP
6
DUPLICATES

EPA SAMPLE NO.

9195E1D

Lab Name: H2M_LABS,_INC. Contract: C003786

Lab Code: H2MLAB Case No.:SH198 SAS No.: SDG No.: 1118

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		61321.1200		59405.0900		3.2		P
Antimony		57.6130	B	52.7413	B	8.8		P
Arsenic		7.3359	B	6.7885	B	7.8		P
Barium		2937.7100		2894.5400		1.5		P
Beryllium		2.9100	B	2.7800	B	4.6		P
Cadmium		0.7500	B	0.5500	B	30.8		P
Calcium		28253.2300		28121.1100		0.5		P
Chromium		7490.9500		7175.2300		4.3		P
Cobalt		9.8500	B	9.5100	B	3.5		P
Copper		10891.6100		10744.8000		1.4		P
Iron		21918.1600		21574.2700		1.6		P
Lead		187.7802		184.8660		1.6		P
Magnesium		3977.5300	B	3941.3100	B	0.9		P
Manganese		896.3300		888.2000		0.9		P
Mercury		3.4000		2.9800		13.2		CV
Nickel		725.6000		704.6400		2.9		P
Potassium		3029.5000	B	2994.0800	B	1.2		P
Selenium		2.5000	U	2.5000	U			P
Silver		0.6100	U	0.6100	U			P
Sodium	5000.0	10681.8100		10658.4600		0.2		P
Thallium		6.8779	B	6.4963	B	5.7		P
Vanadium		30.8600	B	30.1500	B	2.3		P
Zinc		1408.8400		1382.4200		1.9		P
Cyanide								NR

NYSDEC - ASP
6
DUPLICATES

EPA SAMPLE NO.

919525D

Lab Name: H2M_LABS,_INC._____ Contract: C003786___

Lab Code: H2MLAB_ Case No.: SH198__ SAS No.: _____ SDG No.: 1118

Matrix (soil/water): WATER__ Level (low/med): LOW_____

% Solids for Sample: 0.0____ % Solids for Duplicate: 0.0_____

Concentration Units (ug/L or mg/kg dry weight): UG/L__

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								CA
Cyanide		10.0000	U	10.0000	U			

NYSDEC - ASP
6
DUPLICATES

EPA SAMPLE NO.

9195P1D

Lab Name: H2M_LABS,_INC. Contract: C003786

Lab Code: H2MLAB Case No.:SH198 SAS No.: SDG No.: 1118

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 85.5 % Solids for Duplicate: 85.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		638.4678		661.1509		3.5		P
Antimony		126.5723		144.6879		13.4		P
Arsenic	2.3392	4.9819		5.3423		7.0		P
Barium		306.6433		243.4573		23.0	*	P
Beryllium		0.0491	U	0.0491	U			P
Cadmium		0.0491	U	0.0959	B	200.0		P
Calcium		771.6304	B	879.2842	B	13.0		P
Chromium		17546.0351		18861.6140		7.2		P
Cobalt		4.9170	B	5.2795	B	7.1		P
Copper		1904.0842		2169.6444		13.0		P
Iron		1962.2035		1968.8561		0.3		P
Lead		296.0738		332.4624		11.6		P
Magnesium		224.9567	B	215.6865	B	4.2		P
Manganese		21.4503		19.9111		7.4		P
Mercury		0.0557	U	0.0557	U			CV
Nickel		13284.1871		13172.8655		0.8		P
Potassium		68.8561	B	63.0199	B	8.9		P
Selenium		0.5848	U	0.5848	U			P
Silver		0.1427	U	0.1427	U			P
Sodium		23.8480	B	21.3965	B	10.8		P
Thallium	2.3392	4.2398		4.8628		13.7		P
Vanadium		7.0760	B	7.8082	B	9.8		P
Zinc		3438.3018		3536.3649		2.8		P
Cyanide								NR

7. SPIKE SAMPLE RESULTS

7.1 METALS

NYSDEC - ASP
5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.
9195E1S

Lab Name: H2M_LABS,_INC. Contract: C003786

Lab Code: H2MLAB Case No.: SH198 SAS No.: SDG No.: 1118

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		61885.0000		61321.1200		2000.00	28.2		P
Antimony	75-125	551.7792		57.6130	B	500.00	98.8		P
Arsenic	75-125	1973.4353		7.3359	B	2000.00	98.3		P
Barium	75-125	4793.3200		2937.7100		2000.00	92.8		P
Beryllium	75-125	51.9000		2.9100	B	50.00	98.0		P
Cadmium	75-125	47.8400		0.7500	B	50.00	94.2		P
Calcium									NR
Chromium		7447.0100		7490.9500		200.00	-22.0		P
Cobalt	75-125	466.2200		9.8500	B	500.00	91.3		P
Copper		11053.5000		10891.6100		250.00	64.8		P
Iron		22625.7600		21918.1600		1000.00	70.8		P
Lead	75-125	675.1812		187.7802		500.00	97.5		P
Magnesium									NR
Manganese	75-125	1365.1300		896.3300		500.00	93.8		P
Mercury	75-125	3.3300		3.4000		1.00	-7.0	N	CV
Nickel	75-125	1184.4000		725.6000		500.00	91.8		P
Potassium									NR
Selenium	75-125	1978.4753		2.5000	U	2000.00	98.9		P
Silver	75-125	48.5147		0.6100	U	50.00	97.0		P
Sodium									NR
Thallium	75-125	1886.9205		6.8779	B	2000.00	94.0		P
Vanadium	75-125	511.7700		30.8600	B	500.00	96.2		P
Zinc	75-125	1859.4400		1408.8400		500.00	90.1		P
Cyanide									NR

Comments:
REPORTED_1/13/99

NYSDEC - ASP
5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

919525S

Lab Name: H2M_LABS,_INC._____ Contract: C003786_____

Lab Code: H2MLAB_ Case No.: SH198_ SAS No.: _____ SDG No.: 1118___

Matrix (soil/water): WATER_ Level (low/med): LOW___

% Solids for Sample: 0.0___

Concentration Units (ug/L or mg/kg dry weight): UG/L__

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									CA
Cyanide	75-125	101.1000		10.0000	U	100.00	101.1		

Comments:
_SH198-1118-919525
_REPORTED_1/13/99

NYSDEC - ASP
5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.
9195P1S

Lab Name: H2M_LABS,_INC. Contract: C003786

Lab Code: H2MLAB Case No.: SH198 SAS No.: SDG No.: 1118

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 85.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		229.7891		126.5723		116.96	88.2		NR
Antimony	75-125	459.6971		4.9819		467.84	97.2		P
Arsenic	75-125	701.0199		306.6433		467.84	84.3		P
Barium	75-125	10.9591		0.0491	U	11.70	93.7		P
Beryllium	75-125	10.8912		0.0491	U	11.70	93.1		P
Cadmium	75-125	19256.2339		17546.0351		46.78	3655.8		NR
Calcium		110.9497		4.9170	B	116.96	90.7		P
Chromium	75-125	2016.7602		1904.0842		58.48	192.7		P
Cobalt	75-125	390.0108		296.0738		116.96	80.3		NR
Copper		129.8807		21.4503		116.96	92.7		P
Iron		0.5737		0.0557	U	0.56	102.4		CV
Lead	75-125	15448.8655		13284.1871		116.96	1850.8		P
Magnesium		457.2964		0.5848	U	467.84	97.7		NR
Manganese	75-125	11.2383		0.1427	U	11.70	96.1		P
Mercury	75-125	437.5853		4.2398		467.84	92.6		P
Nickel		117.1977		7.0760	B	116.96	94.2		P
Potassium		3931.1228		3438.3018		116.96	421.4		P
Selenium	75-125								NR
Silver	75-125								NR
Sodium									P
Thallium	75-125								P
Vanadium	75-125								P
Zinc									NR
Cyanide									

Comments:
REPORTED_1/13/99

8. BLANK SUMMARY DATA AND RESULTS

8.1 VOLATILES

8.2 METALS

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK11/21/98

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: _____ SDG No.: 1118

Lab File ID: A21097.D Lab Sample ID: VBLK11/21/98

Date Analyzed: 11/21/98 Time Analyzed: 09:39

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

Instrument ID: H5971

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	GF	9837659	A21102.D	11:43
02	GG	9837660	A21103.D	12:08
03	G3	9837661	A21104.D	12:33
04	GGDL	9837660DL	A21106.D	13:56
05	G3DL	9837661DL	A21107.D	14:21

COMMENTS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK11/21/98

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: _____ SDG No.: 1118

Matrix: (soil/water) SOIL Lab Sample ID: VBLK11/21/98

Sample wt/vol: 5.0 (g/ml) G Lab File ID: A21097.D

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

% Moisture: not dec. 0 Date Analyzed: 11/21/98

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

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

CONCENTRATION UNITS:

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

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
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
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

V 01186 12/9/99

S 0058

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK11/21/98

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: _____ SDG No.: 1118

Matrix: (soil/water) SOIL Lab Sample ID: VBLK11/21/98

Sample wt/vol: 5.0 (g/ml) G Lab File ID: A21097.D

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

% Moisture: not dec. 0 Date Analyzed: 11/21/98

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

V-0157 4/8/90

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK11/25/98

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: SDG No.: 1118

Lab File ID: A21136.D Lab Sample ID: VBLK11/25/98

Date Analyzed: 11/25/98 Time Analyzed: 11:59

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

Instrument ID: H5971

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E1	9837664	A21139.D	13:15
02	W2	9837665	A21140.D	13:40
03	2A	9837666	A21141.D	14:05
04	2B	9837667	A21144.D	15:29
05	2S	9837668	A21145.D	15:55

COMMENTS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK11/25/98

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: _____ SDG No.: 1118

Matrix: (soil/water) WATER Lab Sample ID: VBLK11/25/98

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A21136.D

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

% Moisture: not dec. _____ Date Analyzed: 11/25/98

GC Column: RTX502. 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
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
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.

VBLK11/25/98

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: SDG No.: 1118

Matrix: (soil/water) WATER Lab Sample ID: VBLK11/25/98

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A21136.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/25/98

GC Column: RTX502. 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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

NYSDEC - ASP
3
BLANKS

Lab Name: H2M_LABS,_INC._____ Contract: C003786

Lab Code: H2MLAB_ Case No.: SH198 SAS No.: _____ SDG No.: 1118__

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L__

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	19.0	U	19.0	U	19.0	U	19.0	U	19.000	U	P
Antimony	4.3	B	3.0	U	3.0	U	3.0	U	4.607	B	P
Arsenic	1.5	U	1.5	U	2.2	B	1.6	B	1.500	U	P
Barium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Beryllium	0.2	U	0.2	U	0.2	U	0.2	U	0.210	U	P
Cadmium	0.3	B	0.2	U	0.2	U	0.2	U	0.210	U	P
Calcium	75.0	U	75.0	U	75.0	U	75.0	U	75.000	U	P
Chromium	0.7	U	0.7	U	2.1	B	3.1	B	0.700	U	P
Cobalt	1.9	U	1.9	U	1.9	U	1.9	U	1.900	U	P
Copper	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Iron	5.6	U	5.6	U	5.6	U	5.6	U	5.600	U	P
Lead	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Magnesium	28.0	U	28.0	U	28.0	U	28.0	U	28.000	U	P
Manganese	0.7	U	0.7	U	0.7	U	0.7	U	0.700	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.110	U	CV
Nickel	1.5	U	1.5	U	1.5	U	1.6	B	1.500	U	P
Potassium	25.0	U	25.0	U	29.7	B	39.7	B	25.000	U	P
Selenium	2.5	U	2.5	U	2.5	U	2.5	U	2.500	U	P
Silver	0.6	U	0.6	U	0.6	U	0.6	U	0.610	U	P
Sodium	9.9	U	9.9	U	9.9	U	9.9	U	11.010	B	P
Thallium	5.2	B	2.7	B	3.1	B	3.2	B	1.900	U	P
Vanadium	2.1	U	2.1	U	2.1	U	2.1	U	2.100	U	P
Zinc	1.2	U	1.2	U	1.2	U	1.2	U	7.560	B	P
Cyanide	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	CA

NYSDEC - ASP
3
BLANKS

Lab Name: H2M_LABS,_INC. Contract: C003786

Lab Code: H2MLAB Case No.: SH198 SAS No.: SDG No.: 1118

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			24.2	B					3.800	U	P
Antimony			3.0	U					0.600	U	P
Arsenic			2.4	B					0.456	B	P
Barium			0.5	B					0.100	U	P
Beryllium			0.2	U					0.042	U	P
Cadmium			0.2	U					0.042	U	P
Calcium			75.0	U					24.704	B	P
Chromium			2.2	B					0.176	B	P
Cobalt			1.9	U					0.380	U	P
Copper			1.0	U					0.200	U	P
Iron			8.0	B					1.130	B	P
Lead			1.0	U					0.180	U	P
Magnesium			28.0	U					5.600	U	P
Manganese			0.7	U					0.140	U	P
Mercury			0.1	U	0.1	U	0.1	U	0.050	U	CV
Nickel			1.5	U					0.300	U	P
Potassium			31.1	B					5.000	U	P
Selenium			2.5	U					0.500	U	P
Silver			0.6	U					0.122	U	P
Sodium			9.9	U					1.980	U	P
Thallium			4.4	B					0.582	B	P
Vanadium			2.1	U					0.420	U	P
Zinc			1.2	U					0.616	B	P
Cyanide											

NYSDEC - ASP
3
BLANKS

Lab Name: H2M_LABS,_INC. Contract: C003786

Lab Code: H2MLAB Case No.: SH198 SAS No.: SDG No.: 1118

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	5.4	U	6.0	B	5.4	U					P
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											P
Calcium	7.4	U	7.4	U	7.4	U					
Chromium											
Cobalt											
Copper											P
Iron	7.0	U	7.0	U	7.0	U					P
Lead	0.9	U	0.9	U	0.9	U					P
Magnesium	4.2	U	4.2	U	4.2	U					
Manganese											CV
Mercury			0.1	U							
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

9. INTERNAL STANDARD AREA DATA

9.1 VOLATILES

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: _____ SDG No.: 1118

Lab File ID (Standard): A21095.D Date Analyzed: 11/21/98

Instrument ID: H5971 Time Analyzed: 08:11

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 ST	60958	9.59	251877	10.50	206604	15.20
	UPPER LIMIT	121916	9.09	503754	10.00	413208	14.70
	LOWER LIMI	30479	10.09	125939	11.00	103302	15.70
	EPA SAMPLE NO.						
01	VBLK11/21/98	57548	9.68	238841	10.58	192178	15.22
02	GF	60335	9.57	254647	10.49	201280	15.19
03	GG	57097	9.59	244337	10.50	191420	15.19
04	G3	52186	9.62	213213	10.53	140716	15.20
05	GGDL	64746	9.69	264000	10.58	207243	15.22
06	G3DL	63492	9.61	259077	10.52	202791	15.19

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: C003786

Lab Code: 10478 Case No.: NDEC SAS No.: SDG No.: 1118

Lab File ID (Standard): A21135.D Date Analyzed: 11/25/98

Instrument ID: H5971 Time Analyzed: 11:27

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 ST	47304	9.41	213703	10.30	176207	14.89
	UPPER LIMIT	94608	8.91	427406	9.80	352414	14.39
	LOWER LIMI	23652	9.91	106852	10.80	88104	15.39
	EPA SAMPLE NO.						
01	VBLK11/25/98	44543	9.38	201884	10.26	164303	14.88
02	E1	45553	9.26	208976	10.16	170760	14.84
03	W2	46187	9.29	204844	10.18	168064	14.84
04	2A	46169	9.31	206454	10.21	159719	14.85
05	2B	45623	9.37	203689	10.25	166709	14.87
06	2S	44463	9.28	204301	10.19	167389	14.84

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