GROUNDWATER MONITORING SUMMARY REPORT FIRST QUARTER 2004

Stanton Cleaners Area Groundwater Contamination Site Great Neck, New York

Prepared for

U.S. Army Corps of Engineers Kansas City District

In conjunction with

U.S. Environmental Protection Agency Region II

Long Term Operations/Long Term Monitoring Contract No. DACW41-03-D-0004

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LIST OF ACRONYMS AND ABBREVIATIONS

AML Analytical Management Laboratories, Inc.

CLP Contract Laboratory Program

ECC Environmental Chemical Corporation

ID identification

MEE methane, ethane, ethene

MS matrix spike

MSD matrix spike duplicate

QC quality control

SDG sample delivery group total organic carbon

U non-detect

USEPA U.S. Environmental Protection Agency

USACE U.S. Army Corps of Engineers VOCs volatile organic compounds

Groundwater Monitoring Summary Report First Quarter 2004 Stanton Cleaners Groundwater Contamination Site Great Neck, New York

Contract No.: DACW41-03-D-0004

1.0 INTRODUCTION

Environmental Chemical Corporation (ECC) was contracted by the U.S. Army Corps of Engineers (USACE), Kansas City District in conjunction with the U.S. Environmental Protection Agency (USEPA), Region II to perform groundwater sampling, analyses, and reporting for the Stanton Cleaners Area Groundwater Contamination Site, Great Neck, New York. Figure 1-1 is the site location map and Figure 1-2 provides the site layout for the Stanton Cleaners Area. The work is being performed under contract number DACW41-03-D-0004 and consists of monthly sample collection from the water treatment plant and analysis for volatile organic compounds (VOCs); quarterly sample collection from the groundwater monitoring wells and analysis for VOCs and natural attenuation parameters; and quarterly air sample collection and analysis for VOCs. This report is a summary of the samples collected, analyses performed, and analytical results for the first quarter 2004 groundwater monitoring well sampling event.

2.0 SAMPLE COLLECTION ACTIVITIES

All monitoring well sampling activities were conducted by Earth Tech, Inc. between January 13 and January 16, 2004 under subcontract to ECC. During the first quarter 2004 groundwater sampling event, 29 monitoring wells were sampled for VOCs; methane, ethane, ethene (MEE); total organic carbon (TOC); sulfide; alkalinity; nitrate/nitrite; sulfate; and chloride. In addition, two quality control (QC) samples, two matrix spike (MS) / matrix spike duplicate (MSD) sample pairs, four trip blank samples, and four equipment or rinsate blank samples were collected. Quarterly air samples were collected by a separate contractor. Water levels were measured January 12, 2004 and are included in Figure 2-1, Potentiometric Surface Shallow Groundwater Map.

Table 2-1 provides the following information listed by date sampled for ease of comparison to laboratory data packages and field notes:

- QC split samples;
- MS/MSD samples;
- Trip blank and rinsate blank samples;
- A cross-reference between laboratory sample identification (ID) numbers and monitoring well ID numbers;
- Sample delivery group (SDG) numbers;
- Dates of sample collection and sample receipt by the laboratory; and
- Requested analyses.

Appendix A presents the field trip reports including the chain of custody records for the first quarter 2004 groundwater sampling event.

Groundwater Monitoring Summary Report First Quarter 2004 Stanton Cleaners Groundwater Contamination Site Great Neck, New York Contract No.: DACW41-03-D-0004

3.0 ANALYTICAL RESULTS

TOC, sulfide, alkalinity, and VOC analyses were performed by the USEPA, Region II of Edison, New Jersey or Ceimic Corporation of Narragansett, Road Island under the USEPA Contract Laboratory Program (CLP). Due to an overflow of samples at the CLP laboratories, nitrate/nitrite, sulfate, chloride, and MEE analyses were performed by Analytical Management Laboratories, Inc. (AML) of Olathe, Kansas.

Table 3-1 (VOCs) and Table 3-2 (water quality parameters) summarize the detections in samples collected during the first quarter 2004 groundwater sampling event. Figure 3-1 shows the positive detections for VOCs at the Stanton Cleaners Area. Nitrate/nitrite was analyzed by either EPA Method 300.0 or EPA Method 353.3. Appendix B contains the laboratory data packages according to SDG.

4.0 DATA QUALITY EVALUATION

Data points from the analyses performed by the CLP laboratories have been validated by the USEPA, Region II. Results obtained from AML have not been validated. ECC carried over assigned qualifiers and did not perform a separate review or validation of the data. Table 3-1 and 3-2 define assigned qualifiers.

4.1 Sample Receipt at the Laboratory

None of the laboratories reported problems with sample receipt. All samples sent to AML were received within appropriate temperature preservation requirements (2°C - 6°C).

5.0 CONCLUSION

Data results are valid for use, as qualified. No qualifiers other than non-detect (U) were assigned.

6.0 REFERENCES

U.S. Army Corps of Engineers, Kansas City District and U.S. Environmental Protection Agency, Region II, 2003. Stanton Cleaners Area Groundwater Contamination Site Long Term Response Action Support Scope of Work, May 2003.

Tables

Table 2-1 Sample Collection Summary

First Quarter 2004 Groundwater Monitoring Sampling Event Stanton Cleaners Area Groundwater Contamination Site Great Neck, New York

Mechicining CLP AML Quality Centrol MSMSD Sample Date Received SOC DE E E E E E E E E					Great Nec	A, HOW I	J. I.					Ana	yses			=
CL-1D S1773 432007 1/142004 1/142004 4710394													<u></u>			<u> </u>
Field Samples				-	MS/MSD			SDG	T0C	Sulfide	Alkalinity	NOC.	Nitrate	Sulfate	Chloride	MEE
CL-1D 8F773 432007											_		_			
CL-1D 81773 432000							-		•	•	•	•	•	•	•	•
CL-18 B17T1 432008	CL-1D	B17T3	432007			1/13/2004	1/14/2004		ļ		<u> </u>	<u> </u>		_	<u> </u>	Ë
CL-3 B1775 432008	CL-1S	B17T4	432006			1/13/2004	1/14/2004	4320	•	•	•	•	•	•	•	•
CL-4D BITTE	CL-3	B17T5	432008			1/13/2004	1/14/2004		•	•	•	•	•	•	•	•
EPA-MW-32 B17W 432009 B17W 432009 B17W 432000 B17W 432000 B17W 432000 B17W 432000 B17W 432000 B17W 432000 EPA-MW-31D B17W 432000 EPA-MW-32D EPA-MW-32D B17W 432000 EPA-MW-32D B17W 432017 B17W 432012 EPA-MW-32MSD B17W 432012 EPA-MW-32MSD B17W 432012 EPA-MW-32MSD B17W 432010 EPA-MW-32MSD B17WB B17W	CL-4D	B17T6	432005			1/13/2004	1/14/2004		•	•	•	•	•	•	•	•
EPA-MW-31	CL-4S	B17T7	432004			1/13/2004	1/14/2004		•	•	•	•	•	•	•	•
B17W8 432002 1/14/2004 4/16/2004 4/320 4/3	EPA-MW-29	B17W4	432009			1/13/2004	1/14/2004		•	•	•	•	•	•	•	•
B17Z5	FDA-MW-31	B17W6	432002			1/13/2004	1/14/2004		•	•	•	•	•	•	•	•
EPA-MW-30 B17W5 432017	#1 25 M PT W 1	B17Z5	432003	EPA-MW-31D		1/13/2004	1/14/2004		•	•	•	•	•	•	•	•
EPA-MW-30 B17W7 432012	EPA-MW-33	B17W8	432001			1/13/2004			•	•	•	•	•	•	•	•
EPA-MW-32 EPA-MW-9A B17W7 432012 EPA-MW-32MS 1/14/2004 1/14/2004 EPA-MW-9A B17W9 432013 EPA-MW-32MSD 1/14/2004 1/14/2004 1/14/2004 1/14/2004 1/14/2004 1/14/2004 1/14/2004 1/14/2004 1/14/2004 1/14/2004 ST-MW-11 B17X0 ST-MW-11 B17X3 432010 B17X4 432010 1/14/2004 1/14/2004 1/14/2004 1/14/2004 1/14/2004 1/14/2004 1/14/2004 1/14/2004 1/14/2004 1/14/2004 1/14/2004 1/14/2004 1/14/2004 1/14/2004 1/14/2004 1/14/2004 1/14/2004 ST-MW-17 B17X9 432014 ST-MW-17 B17X9 432014 1/14/2004	EPA-MW-30	B17 <u>W5</u>	432017			1/14/2004			•	•	•	•	•	•	•	•
B17W7 432012 EPA-MW-32MSD 1/14/2004 1/14/2004 4320	EDA-MW-32	B17W7	432012			1/14/2004			•	•	•	•	•	•	•	•
EPA-MW-9A B17W9 432013	CFA-MIVI-OL									ļ	L.,	<u> </u>	_	-		•
EPA-MW-9A B17W9 432013		B17W7	432012		EPA-MW-32MSD	1/14/2004			1		-	_	-	-	•	•
EPA-MW-11D B17X0 432010	EPA-MW-9A	B17 <u>W</u> 9	432013			1/14/2004	1/14/04	4320	•	•	•	•	•	•	•	•
ST-MW-11 B17X3 432011 1/14/2004 1/14/2004 1/14/04 4320	EPA-MW-11D	B17X0	432010			1/14/2004	1/14/04	4320	•	•	•	•	•	•	•	•
ST-MW-12 B17X4 432012	ST-MW-11	B17X3	432011	- -		1/14/2004	1/14/04	4320	•	•	•	•	•	•	•	•
ST-MW-17 B17X9 432014 1/14/2004 1/14/2004 1/16/2004 4010034 •	ST-MW-12	B17X4	432012			1/14/2004	1/14/04	4320	•	•	•	•	•	•	•	•
ST-MW-20 B17Y1 432016 1/14/2004 1/14/2004 4320 <	ST-MW-17	B17X9	432014		<u> </u>	1/14/2004			•	•	•	•	•	•	•	•
EPA-MW-21 B1778	ST-MW-20	B17Y1	432016			1/14/2004			•	•	•	•	•		•	•
EPA-MW-22 B17T9	EPA-MW-21	B17T8	433006			1/15/2004	1/16/2004	4330	•	•	•	•	•	•	•	•
EPA-MW-22 B17T9 433005		B17Z4	433009	EPA-MW-21D		1/15/2004	1/16/2004	4330	•	•	•	•	•		•	•
EPA-MW-23 B17W0 433001 EPA-MW-23MS 1/15/2004 1/16/2004 4330 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	EPA-MW-22	B17T9	433005	<u> </u>		1/15/2004	1/16/2004	4330	•	•	•	•	•		•	•
B17W0 433001 EPA-MW-23MS 1/15/2004 1/16/2004 4330	EPA-MW-23				504 AMY 55145			4330	•	•	•	•	•	•	•	•
EPA-MW-25 B17W1 433002 1/16/2004 4010034 4330 4330 4330 4330 4010034 4330 40100034 4330 4010034 4330 4010034 4330 4010034 4330									\vdash	\vdash	\vdash				_	•
EPA-MW-27 B17W3 433008 1/15/2004 1/16/2004 4010034 4330 <	FDA-MW-2s				LI A-INTY-ZOWIOD			4010034	•	•	•	•	•	•		•
ST-MW-02 B17X1 433007 1/15/2004 1/16/2004 4330 4010034 4330 ST-MW-06 B17X2 433010 1/15/2004 1/16/2004 4330 4010034 4330 4010034 4330 4010034 4		1						4010034	•	•	•	•	•	•	•	•
ST-MW-06 B17X2 433010 1/15/2004 1/16/2004 4010034 4330 4010034 40100034 401000034 401000034 401000034 401000034 4010000000000								4010034	•	•	•	•	•	•	•	•
4010034								4010034	•	•	•	•	•	•	•	•
- WI HILLY 1 1 1 10000 1 1 1 1 1 1 1 1 1 1								4010034	•	•	•	•	•	•	•	•
ST-MW-16 B17X8 433003 1/15/2004 1/16/2004 4330 • • • • •								4010034	•	•	•	•	•	•	•	•

Table 2-1

Sample Collection Summary

First Quarter 2004 Groundwater Monitoring Sampling Event Stanton Cleaners Area Groundwater Contamination Site

Great Neck, New York

											Ana	lyses		=	
Monitoring Well ID	CLP Sample ID ¹	AML Lab ID ²	Quality Control	MS/MSD	Date Sampled	Date Received by Lab	SDG	ျို	Sulfide	Alkalinity	VOCs	Nitrate	Sulfate	Chloride	MEE
Field Samples										<u> </u>					_
EPA-MW-26	B17W2	433013			1/16/2004	1/20/2004 1/16/04	4010034 4330	•	•	•	•	•	•	•	•
ST-MW-13	B17X5	433012			1/16/2004	1/20/2004 1/16/04	4010034 4330	•	•	•	•	•	•	•	•
ST-MW-15	B17X7	433011			1/16/2004	1/20/2004 1/16/04	4010034 4330	•	•	•	•	•	•	•	•
ST-MW-18	B17Y0	433014			1/16/2004	1/20/2004 1/16/04	4010034 4330	•	•	•	•	•	•	•	•
Trip Blanks															_
TB-01	B17Y3	NA			1/13/2004						•				
TB-02	B17Y5	NA			1/14/2004						•		П		
TB-03	B17Y7	NA			1/15/2004		-				•				
TB-04	B17Y9	NA			1/16/2004						•				
Equipment Blank	s						_								
FB-01	B17Y2	NA			1/13/2004						•				
FB-02	B17Y4	NA			1/14/2004						•				
FB-03	B17Y6	NA			1/15/2004						•				\Box
FB-04	B17Y8	NA			1/16/2004						•				

Notes:

- ¹ = TOC, sulfide, alkalinity, and VOC analyses were performed by a CLP laboratory.
- ² = Nitrate/nitrite, sulfate, chloride, and MEE analyses were performed by AML.
- = Planned sample was collected.

AML = Analytical Management Laboratories, Inc.

CLP = Contract Laboratory Program

ID = Identification

MEE = Methane, Ethane, Ethene

MS/MSD = matrix spike/matrix spike duplicate

NA = not applicable

SDG = Sample Delivery Group

TOC = Total Organic Carbon

VOCs = Volatile Organic Compounds

Table 3-1
Positive Detections - VOCs
First Quarter 2004 Groundwater Monitoring Sampling Event
Stanton Cleaners Area Groundwater Contaminatin Site
Great Neck, New York

Monitoring Well ID:	CL-1D	EPA-MW-21	EPA-MW-21 EPA-MW-21D	EPA-MW-23	EPA-MW-31	EPA-MW-31D	ST-MW-02	ST-MW-14	ST-MW-15	ST-MW-18	ST-MW-20
CLP Sample ID:	B17T3	B17T8	B17Z4	B17W0	B17W6	B17Z5	B17X1	B17X6	B17X7	B17Y0	B17Y1
Date Sampled:	1/13/2004	1/15/2004	1/15/2004	1/15/2004	1/13/2004	1/13/2004	1/15/2004	1/15/2004	1/16/2004	1/16/2004	1/14/2004
Sample Type:			Duplicate	MS/MSD	_	Duplicate					
VOCs*											
Units: µg/L											
1,1-Dichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3.1	10 U	10 U	10 U
Methylene chloride	10 U	10 U	10 U	10 0	10 U	10 U	10 U	10 U	10 U	10 U	10 U
MTBE	10 U	20 J	10 U	10 O	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,2-Dichloroethene	~ 80 80	13 J	4	10 U	10 U	10 U	7	10 U	10 U	10 U	10 U
Cyclohexane	10 U	10 U	10 U	10 U	٦ 6	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	10 U	10 U	10 U	10 U	360 (D)	260 (D)	10 U	10 0	10 U	10 U	10 U
Trichloroethene	٦6 -	45 J	96 .	<u>.</u>	10 U	10 U	7.	2	10 U	٦,	2.3
Methylcyclohexane	10 U	10 U	10 U	10 U	9	23	10 U				
Toluene	10 U	10 U	10 U	10 U	26	93	10 U				
Tetrachloroethene	1200 (D)	2300 (D)	2300 (D)	120	10 U	10 U	100	10 U	110	10 U	10 U
Ethylbenzene	10 U	10 U	10 U	10 U	110	67	10 U				
Xylene (total)	10 U	10 U	10 U	10 U	400	240	10 U				
Isopropylbenzene	10 U	10 U	10 U	10 U	4 J	2 J	10 U				

First Quarter 2004 Groundwater Monitoring Sampling Event Stanton Cleaners Area Groundwater Contaminatin Site Positive Detections - VOCs Great Neck, New York Table 3-1

Monitoring Well ID:	FB-01	TB-01	FB-02	TB-02	FB-03	TB-03	FB-04	TB-04
CLP Sample ID:	B17Y2	B17Y3	B17Y4	B17Y5	B17Y6	B17Y7	B17Y8	B17Y9
Date Sampled:	1/13/2004	1/13/2004	1/14/2004	1/14/2004	1/15/2004	1/15/2004	1/16/2004	1/16/2004
	Equipment	Trip	Equipment	Trip	Equipment	Trip	Equipment	Trip
Sample Type:	Blank	Blank	Blank	Blank	Blank	Blank	Blank	Blank
VOCs*								
Units: µg/L								
1,1-Dichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	7 8	24 J	7.7	5 J	15	12	2	P 9
MTBE	4 ک	10 U	4	10 U	. 4	10 U	4 L 4	10 U
cis-1,2-Dichloroethene	10 U	10 U	10 0	10 U	10 U	10 U	10 U	10 U
Cyclohexane	10 U	10 U	10 U	10 U	10 U	10 U	10 0	10 U
Benzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 C
Trichloroethene	10 U	10 0	10 U	10 U	10 U	10 U	10 U	10 C
Methylcyclohexane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 C
Toluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 C
Tetrachloroethene	۲٦	10 U	- R	10 U	ر 9	10 U	P 9	10 U
Ethylbenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 0	10 U
Xylene (total)	10 U	10 U	10 U	10 U	10 0	10 U	10 0	10 U
Isopropylbenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

 * = VOCs were analyzed by a CLP laboratory, and data validation was performed by EPA Region II. ECC carried over assigned qualifers and did not perform a separate review or validation of the data. Detections of tentatively identified compounds were not reported in this table.

Bold value indicates a detection.

CLP = Contract Laboratory Program

(D) = The reported result is from a dilution of the sample.

VOCs = Volatile Organic Compounds

MTBE = Tert-butyl-methyl-ether U = Undetected value

MS/MSD = matrix splke/matrix spike duplicate

 $\mu g/L = micrograms per liter$

ID = IdentificationJ = Estimated value

Table 3-2
Positive Detections - Wet Chemistry
First Quarter 2004 Groundwater Monitoring Sampling Event
Stanton Cleaners Area Groundwater Contamination Site
Great Neck, New York

Monitoring Well ID:	CL-1D	CL-1S	CL-3	CL-4D	CL-4S	EPA-MW-21	EPA-MW-21D	EPA-MW-22	EPA-MW-23	EPA-MW-25	EPA-MW-26
CLP Sample ID:	B17T3	B17T4	B17T5	B17T6	B17T7	B17T8	B17Z4	B17T9	B17W0	B17W1	B17W2
Date Sampled:	1/13/2004	1/13/2004	1/13/2004	1/13/2004	1/13/2004	1/15/2004	1/15/2004	1/15/2004	1/15/2004	1/15/2004	1/16/2004
Sample Type:							Duplicate		MS/MSD		
Wet Chemistry*											
Units: mg/L											
Alkalinity	75	51	62	42	64	56	55	74	82	54	91
Total Organic Carbon	1.7	1.3	1.6	1.5	2.0	2.3	2.4	1.6	2.0	1.6	1.4
Chloride	95.6 (D)	65.7 (D)	32 (D)	12.6	38.5 (D)	265 E (200)	255 E (192)	86.3 E (80)	103 E (90.6)	117 E (104)	176 (D)
Sulfate	48.4 E (44.7)	49.2 E (45.1)	34.2	10.9	41.9 E (41.6)	66.3 E (59.2)	64.7 E (58)	25.6	48.3 E (47.4)	40.2 E (41.7)	42.3 (D)
Nitrate	3.32	3.21	2.84	2.5	2.4	8.44	5.95	1.84	5.27	3.44	3.46
Nitrate/Nitrite**	NA	NA	_NA	NA	NA NA	8.44	5.95	1.84	5.27	3.44	3.46
MEE											
Units: µg/L											
Methane	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 Ŭ	1.5 U	1.5 U

Monitoring Well ID:	EPA-MW-27	EPA-MW-29	EPA-MW-30	EPA-MW-31	EPA-MW-31D	EPA-MW-32	EPA-MW-33	EPA-MW-9A	EPA-MW-11D	ST-MW-02
CLP Sample ID:	B17W3	B17W4	B17W5	B17W6	B17Z5	B17W7	B17W8	B17W9	B17X0	B17X1
Date Sampled:	1/15/2004	1/13/2004	1/14/2004	1/13/2004	1/13/2004	1/14/2004	1/13/2004	1/14/2004	1/14/2004	1/15/2004
Sample Type:				_	Duplicate	MS/MSD				
Wet Chemistry*										
Units: mg/L										
Alkalinity	56	49	51	100	100	75	78	92	55	85
Total Organic Carbon	1.5	1.7	1.7	2.4	2.4	1.7	2.1	2.3	1.7	1.7
Chloride	143 E (113)	6.23	16.7	85.4 (D)	85.1 (D)	13.7	58.7 (D)	69.9 E (57.8)	119 E (100)	121 E (98)
Sulfate	39.9	5.96	23.6	28.5	27.2	24.5	44.7 E (40.9)	60.3 E (50.7)	40.7	77 E (64.9)
Nitrate	3.21	0.877	2.33	1.01	0.968	2.76	4.68	2.01	2.72	4.65
Nitrate/Nitrite**	3.21	NA	NA	NA	NA NA	NA	NA	NA	NA	4.65
MEE										
Units: μg/L										
Methane	1.5 U	1.5 U	1.5 U	105	55.4	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U

Table 3-2

Positive Detections - Wet Chemistry

First Quarter 2004 Groundwater Monitoring Sampling Event

Stanton Cleaners Area Groundwater Contamination Site Great Neck, New York

Monitoring Well ID:	ST-MW-06	ST-MW-11	ST-MW-12	ST-MW-13	ST-MW-14	ST-MW-15	ST-MW-16	ST-MW-17	ST-MW-18	ST-MW-20
CLP Sample ID:	B17X2	B17X3	B17X4	B17X5	B17X6	B17X7	B17X8	B17X9	B17Y0	B17Y1
Date Sampled:	1/15/2004	1/14/2004	1/14/2004	1/16/2004	1/15/2004	1/16/2004	1/15/2004	1/14/2004	1/16/2004	1/14/2004
Sample Type:					1					
Wet Chemistry*						_				
Units: mg/L						-			-	_
Alkalinity	18	76	17	130	59	140	110	61	56	57
Total Organic Carbon	1.2	1.9	1.8	1.3	2.6	1.7	3.3	2.0	1.7	1.7
Chloride	48.7 E (43.3)	72.6 E (60.4)	142 E (117)	75.6 (D)	75.4 E (56.9)	63.3 (D)	91.4 E (81.9)	126 E (97.1)	63.3 (D)	130 E (99.7)
Sulfate	7.4	64.7 E (54.8)	66.5 E (60.4)	49.5 (D)	55.5 E (43.6)	48.6 (D)	219 E (182)	45.9 E (40.5)	59.1 (D)	61 E (51.2)
Nitrate	0.781	3.11	17	7.25	3.49	9	19	3.32	8.58	2.79
Nitrate/Nitrite**	0.781	NA	NA	7.25	3.49	9	19	NA	8.58	NA
MEE					-					
Units: µg/L									_	
Methane	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U

Notes:

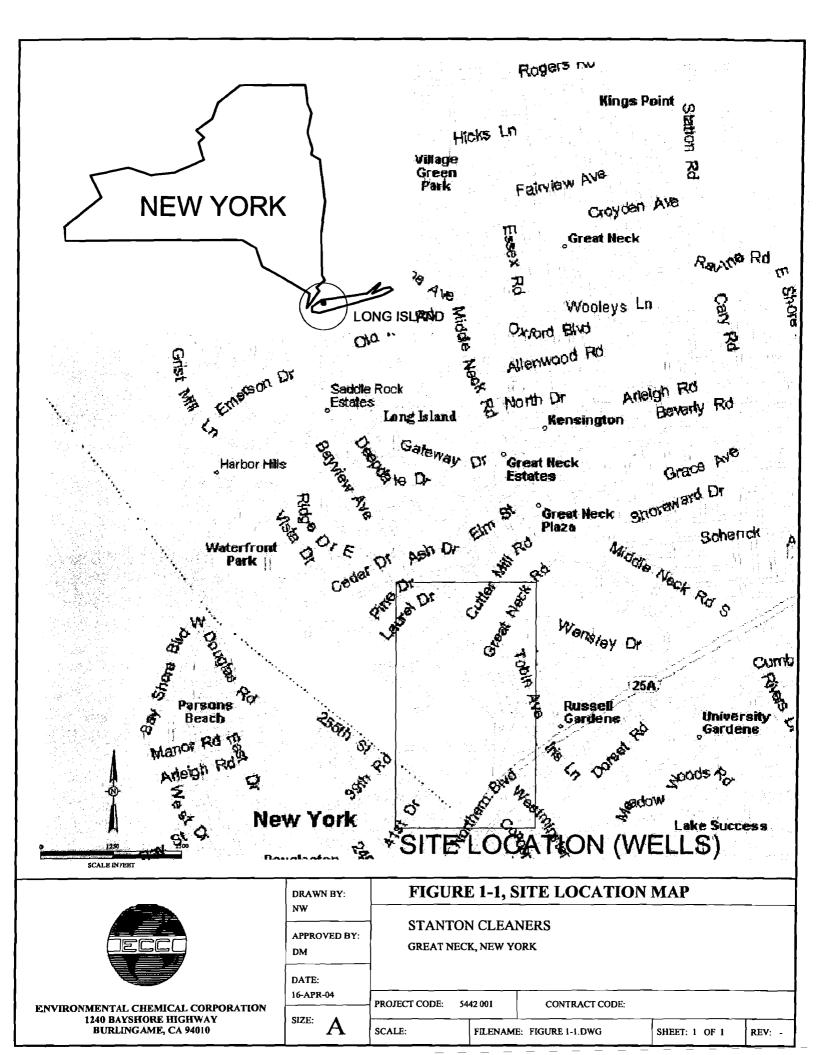
- = Alkalinity, sulfide, and total organic carbon were analyzed by a CLP laboratory, and data validation was performed by EPA Region II. No data validation was performed for the other parameters. ECC carried over assigned qualifers and did not perform a separate review or validation of the data.
- ** = Nitrate/nitrite was analyzed by EPA Method 353.3; nitrate was analyzed by EPA Method 300.0.

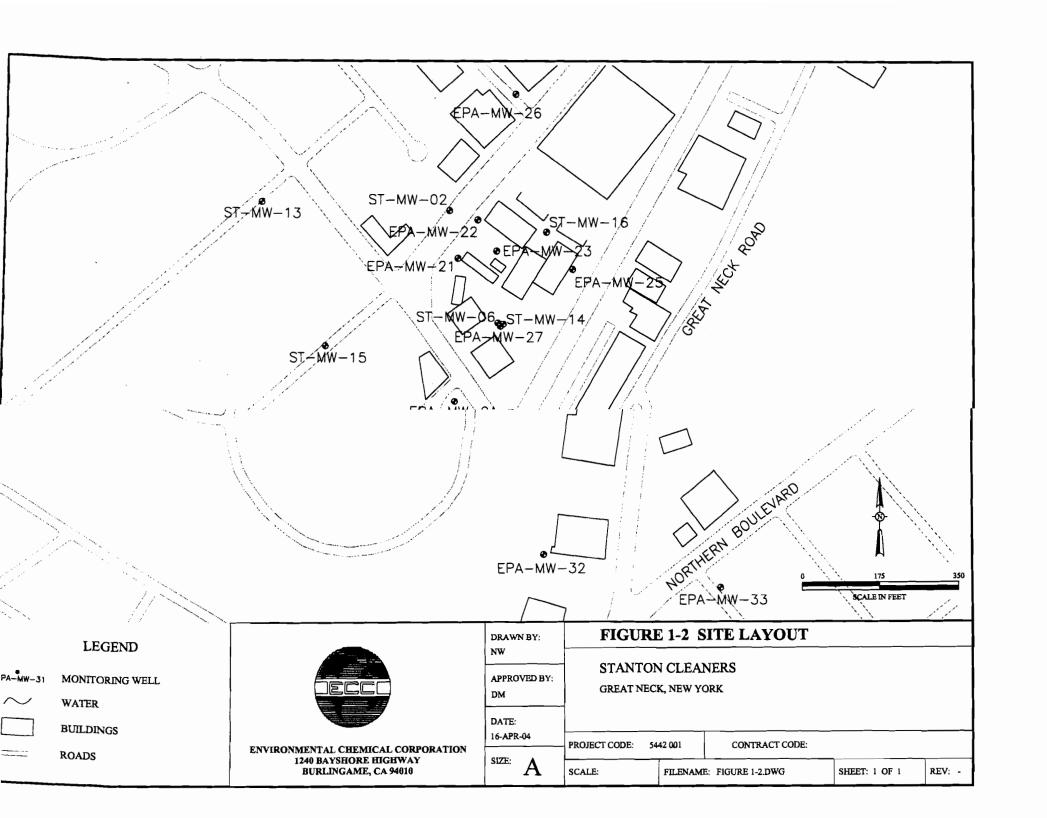
Bold value indicates a detection.

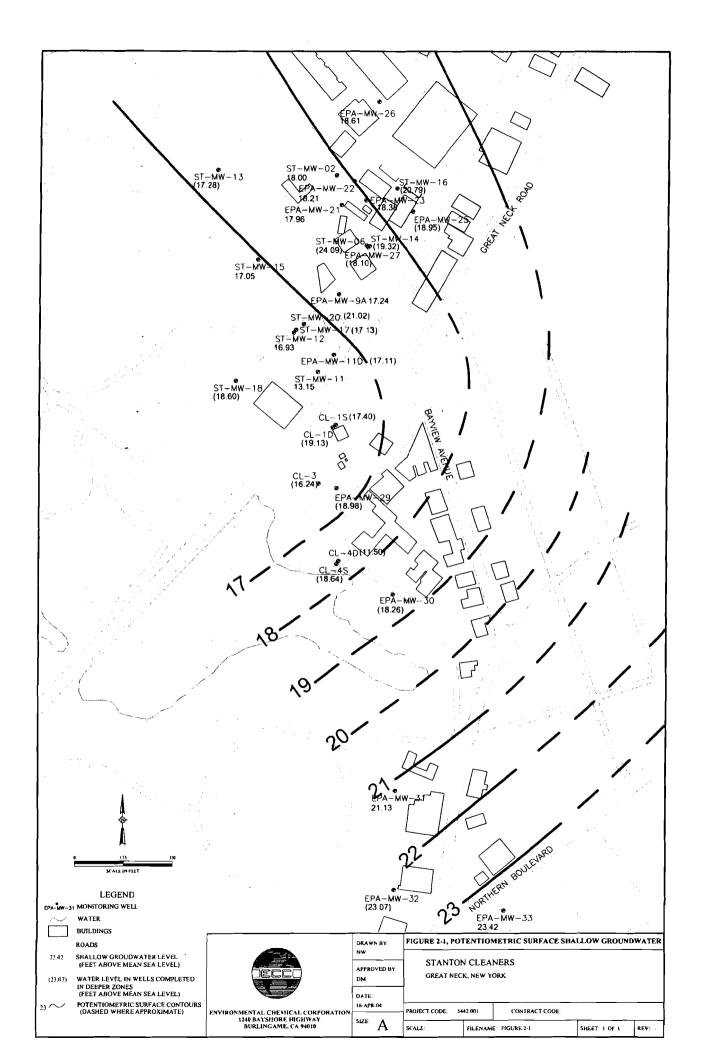
CLP = Contract Laboratory Program

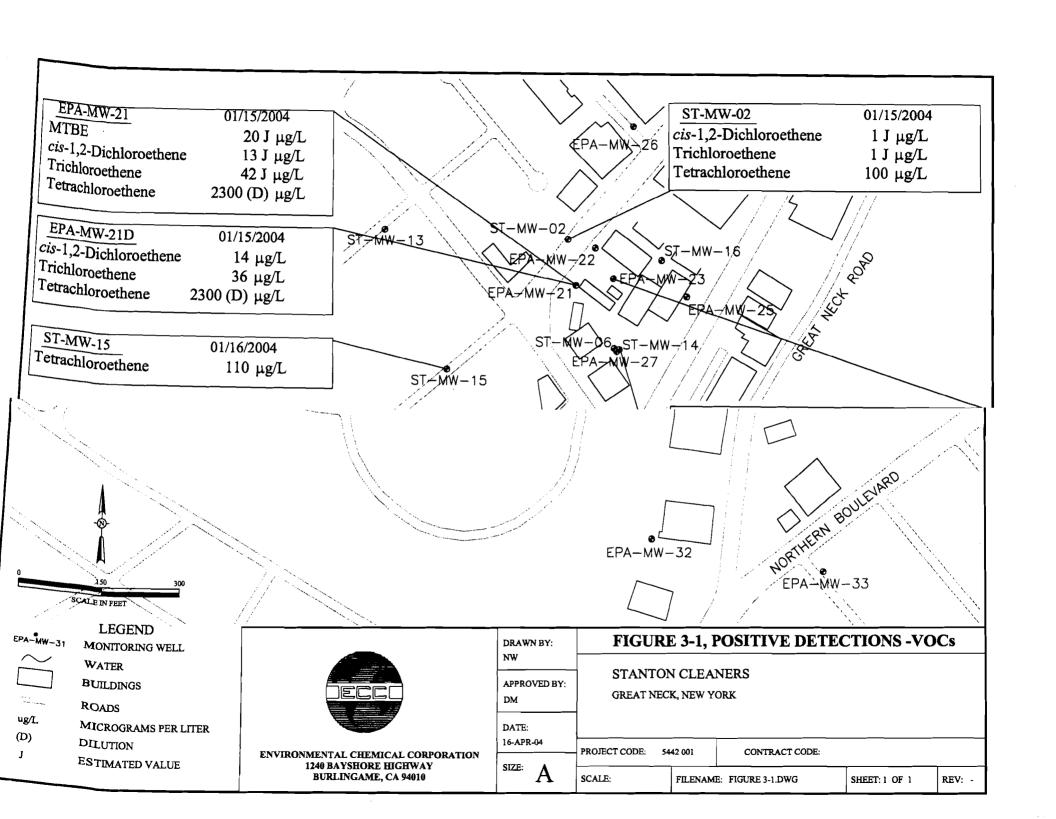
- (D) = The reported result is from a dilution of the sample.
- E = Exceeds calibration range of the instrument.
- ID = Identification
- MEE = Methane, Ethane, Ethene
- μg/L = micrograms per liter
- mg/L = milligrams per liter
- MS/MSD = matrix spike/matrix spike duplicate
 - NA = not available
 - U = Undetected value

Figures









Appendix A Field Trip Reports Chain of Custody Records

SAMPLING TRIP REPORT

Site Name: STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE - LTRA

CERCLIS ID Number: NYD047650197

Sampling Dates: January 13 - January 16, 2004

CLP Case Number: 32512

Site Location: 110 Cutter Mill Road, Great Neck, New York, 11021 Sample Descriptions: First Quarterly Groundwater Sampling Event

Laboratories Receiving Samples:

Case Number	Sample Type	Name and Address of Laboratory
32512	TCL-VOAs	Ceimic Corporation (CEIMIC) 10 Dean Knauss Drive Narragansett, RI 08837
32512	Alkalinity Sulfide TOC	USEPA Region II (USEPA) Building 209 MS-230 2890 Woodbridge Avenue Edison, N.J. 08837
32512	Chloride, Nitrate Sulfate, Methane Bthane, Ethene	Analytical Management Laboratories (AML) 15130 B South Keeler Olathe, KS 66062

Sample Dispatch Data:

On January 13, 2003, nine (9)groundwater samples, including one (1) duplicate sample were shipped to CEIMIC, USEPA, and AML for analysis of TCL-volatiles; alkalinity; total organic carbon; nitrate; sulfate; sulfide; chloride; methane; ethane; and ethene. One (1) trip blank and one (1) equipment blank were also shipped to CEIMIC for TCL-volatiles analysis only.

FedEx Airbill No.	Number of Coolers	Number and Type of Samples	Time and Date of Shipping
842135663820	1	8 Aqueous Samples, 1 Duplicate Sample 1 Trip Blank and 1 Equipment Blank for a total of 11 samples for TCL-VOAs.	17:30 1/13/04 To: CEIMIC
842135663831	1	8 Aqueous Samples, 1 Duplicate Sample for a total of 9 samples for Alkalinty, Sulfide, and TOC.	17:30 1/13/04 To: USEPA
842135663842	1	8 Aqueous Samples, 1 Duplicate Sample 11 samples for Chloride, Nitrate, Sulfate, Methane, Ethene, and Ethene.	17:30 1/13/04 To: AML

On January 14, 2004, eight (8) groundwater samples, including extra volume for Matrix Spike / Matrix Spike Duplicate (MS/MSD) analysis were shipped to CEIMIC, USEPA, and AML for analysis of TCL-volatiles; alkalinity; total organic carbon; nitrate; sulfate; sulfide; chloride;

methane; ethane; and ethene. One (1) trip blank and one (1) equipment blank were also shipped to CEIMIC for TCL-volatiles analysis only.

FedEx Airbill No.	Number of Coolers	Number and Type of Samples	Time and Date of Shipping
842135658800	1	8 Aqueous Samples, including extra volume for MS/MSD, 1 Trip Blank and 1 Equipment Blank for a total of 10 samples for TCL-VOAs.	17:50 1/14/04 To: CEIMIC
842135658821	1	8 Aqueous Samples, including extra volume for MS/MSD for Alkalinty, Sulfide, and TOC.	17:50 1/14/04 To: USEPA
842135658810	1	8 Aqueous Samples, including extra volume for MS/MSD for Chloride, Nitrate, Sulfate, Methane, Ethene, and Ethene.	17:50 1/14/04 To: AML

On January 15, 2004, ten (10)groundwater samples, including one (1) duplicate sample and extra volume for Matrix Spike / Matrix Spike Duplicate (MS/MSD) analysis were shipped to CEIMIC, USEPA, and AML for analysis of TCL-volatiles; alkalinity; total organic carbon; nitrate; sulfate; sulfide; chloride; methane; ethane; and ethene. One (1) trip blank and one (1) equipment blank were also shipped to CEIMIC for TCL-volatiles analysis only.

FedEx Airbill No.	Number of Coolers	Number and Type of Samples	Time and Date of Shipping
842135658773	1	9 Aqueous Samples, 1 Duplicate Sample, extra volume for MS/MSD, and 1 Trip Blank and 1 Equipment Blank for a total of 12 samples for TCL-VOAs.	17:45 1/15/04 To: CEIMIC
842135658762	1	9 Aqueous Samples, 1 Duplicate Sample, extra volume for MS/MSD for a total of 10 samples for Alkalinty, Sulfide, and TOC.	17:45 1/15/04 To: USEPA
842135658751	1	9 Aqueous Samples, 1 Duplicate Sample, extra volume for MS/MSD for a total of 10 samples for Chloride, Nitrate, Sulfate, Methane, Ethene, and Ethene.	17:45 1/15/04 To: AML

On January 16, 2004, four (4)groundwater samples were shipped to CEIMIC and AML for analysis of TCL-volatiles; nitrate; sulfate; chloride; methane; ethane; and ethene. One (1) trip blank and one (1) equipment blank were also shipped to CEIMIC for TCL-volatiles analysis only. The sample bottles to be shipped to USEPA for analysis of alkalinity, sulfide, and total organic carbon were not shipped on this day because the lab does not accept Saturday deliveries. These sample

bottles were stored on ice and shipped out the following Monday January 19, 2004.

FedEx Airbill No.	Number of Coolers	Number and Type of Samples	Time and Date of Shipping
842135659730	1	4 Aqueous Samples and 1 Trip Blank and 1 Equipment Blank for a total of 6 samples for TCL-VOAs.	17:00 1/16/04 To: CEIMIC
842135658718	1 .	4 Aqueous Samples for Chloride, Nitrate, Sulfate, Methane, Ethene, and Ethene.	17:00 1/16/04 To: AML

January 19, 2004, the remaining sample bottles from the four (4) groundwater samples collected January 16, 2004 were shipped to USEPA for analysis of alkalinity, sulfide, and total organic carbon.

FedEx Airbill No.	Number of Coolers	Number and Type of Samples	Time and Date of Shipping
842135663820	1	4 Aqueous Samples for Alkalinty, Sulfide, and TOC.	12:00 1/19/04 To: USEPA

Sampling Personnel:

Name	Organization	Site Duties
John Huisman	Earth Tech, Inc.	Sampler / Health & Safety
Angela Schreffler	Earth Tech, Inc.	Sampler
Christian Spencer	Earth Tech, Inc.	Sampler
Russel Reynolds	Earth Tech, Inc.	Sampler
Tom Williams	Earth Tech, Inc.	Task Manager

Sample Numbers and Collection Points:

Attachemnt A includes a table with a list of all groundwater monitoring well collection points and their assigned CLP sample numbers.

Additional Comments:

During the groundwater sampling event that occurred from January 13 through January 16, 2004, a total of 31 groundwater samples including 2 duplicate samples (EPA-MW-21D & EPA-MW-31D) and extra volumes for two MS/MSD analysis were collected and shipped for laboratory analysis. A total of 4 trip blanks and 4 equipment blanks were also collected.

The groundwater sampling procedures conducted were in accordance with the USEPA Region II Groundwater Sampling Low Flow (Minimal Drawdown) Groundwater Sampling Procedures, Dated April 1996.

Copies of Chains of Custody Records are included in Attachment B. FedEx Airbills are included in Attachment C.

APPENDIX A CLP SAMPLE NUMBERS AND COLLECTION POINTS



CLP Sample Numers and Collection Points January 2004

MONITORING WELL ID	CLP SAMPLE #	DATE COLLECTED	COMMENTS
CL-1D	B17T3	1/13/04	
CL-1S	B17T4	1/13/04	
CL-3	B17T5	1/13/04	
CL-4D	B17T6	1/13/04	
CL-4S	B17T7	1/13/04	·
EPA-MW-21	B17T8	1/15/04	
EPA-MW-21D	B17Z4	1/15/04	DUPLICATE SAMPLE OF EPA-MW-21
EPA-MW-22	B17T9	1/15/04_	
EPA-MW-23	B17W0	1/15/04	
EPA-MW-25	B17W1	1/15/04	
EPA-MW-26	B17W2	1/16/04	
EPA-MW-27	B17W3	1/15/04	
EPA-MW-29	B17W4	1/13/04	
EPA-MW-30	B17W5	1/14/04	
EPA-MW-31	B17W6	1/13/04	
EPA-MW-31D	B17Z5	1/13/04	DUPLICATE SAMPLE OF EPA-MW-31
EPA-MW-32_	B17W7	1/14/04	MS/MSD
EPA-MW-33	B17W8	1/13/04	
EPA-MW-9a	B17W9	1/14/04	
MW-11D	B17X0	1/14/04	
ST-MW-02	B17X1	1/15/04	
ST-MW-06	B17X2	1/15/04	
ST-MW-11	B17X3	1/14/04	
ST-MW-12	B17X4	1/14/04	
ST-MW-13	B17X5	1/16/04	
ST-MW-14	B17X6	1/15/04	
ST-MW-15	B17X7	1/16/04	
ST-MW-16	B17X8	1/15/04	
ST-MW-17	B17X9	1/14/04	
ST-MW-18	B17Y0	1/16/04	
ST-MW-20	B17Y1	1/14/04	and the second s
	i 10 ja 2 10 j	TEMPS DECEMBER	D. BLANKS THE SECTION AND SECTION
FB-01	B17Y2	1/13/04	EQUIPEMNT BLANK
TB-01	B17Y3	1/13/04	TRIP BLANK
FB-02	B17Y4	1/14/04	EQUIPEMNT BLANK
TB-02	B17Y5	1/14/04	TRIP BLANK
FB-03	B17Y6	1/15/04	EQUIPEMNT BLANK
TB-03	B17Y7	1/15/04	TRIP BLANK
FB-04	B17Y8	1/16/04	EQUIPEMNT BLANK
TB-04	B17Y9	1/16/04	TRIP BLANK

NOTES:

The letter "M" is placed in front of the sample number on the Chain of Custody when Inorganic analysis is required.

APPENDIX B CHAIN OF CUSTODY FORMS



EPA USEPA Contract Laboratory Program Generic Chain of Custody

Reference Case 32512

Charit No:

SDG No:

For Lab Use Only Lab Contract No: Transfer To: Unit Price: (Date / Time) Sampler Signature: Received By 0501 KOJOJI (Date / Time) Chain of Custody Record Refinquished By USEPA REGION II Building 209 MS230 2690 Woodbridge Avenue 842135663831 1/13/2004 Date Shipped: Carrier Name: Shipped to: Airb#:

		FOR LAB USE ONLY Sumple Condition On Nacerpt										
		POR Sumpto										AJSIA PT
Lab Contract No:	Unit Price:		10:30	8:45	12:46	12:66	11:60	15:45	15:05	15:05	10:30	8:45 by 09:45
		BANPLE COLLECT DATETHE	8: 1/13/2004	S: 1/13/2004	S: 1/13/2004	S: 1/13/2004	S: 1/13/2004	S: 1/13/2004	S: 1/13/2004	S: 1/13/2004	8: 1/13/2004	s: 1/13/2004 -33 S: [//2/a
		STATION	CL1D	CL-18	داع دا	CL-40	CL-48	EPA-MW-29	EPA-MW-31	EPA-MW-31D	CL-10	CL-18 LK)(2) GPA-PW
		TAG NA/ PRESERVATIVE SOCIES	6 (H2SO4), 7 (H2SO4) (2)	13 (H2604), 14 (H2904) (2)	20 (H2SO4), 21 (H2SO4) (2)	27 (H2SO4), 28 (H2SO4) (2)	34 (H2SO4), 36 (H2SO4) (2)	49 (H2SO4), 50 (H2SO4) (2)	56 (H2SO4), 57 (H2SO4) (2)	63 (H2SO4), 64 (H2SO4) (2)	6 (NeOH, Zn Acetate) (1)	1) 12 (NeOH, Zn Acetero) (1) CL-18 S: 1/13/2004 8:45 S-(21) (H-2504) (1A-0H, Zn Aceter) (2) GPA-prop-33 S: [[12/3ey OF:4]]
8	4	ANALYBIS TURNAROUND	TOC (21)	TOC (21)	TOC (21)	TOC (21)	TOC (21)	TOC (21)	TOC (21)	TOC (21)	S-(21)	8-(21) 70c(10) S-(22)
		CONO	હ	Q	ଷ	Q	Q	Q	Q	Q	Q	ହ 😘
Edlam NJ 08837	(MATRIX SAMPLER	Ground Water	Ground Water	Ground Weter	Ground Water	Ground Water	Ground Weter	Ground Water	Ground Water	Ground Water	Ground Water
		SAMPLE No.	B17T3	B17T4	B1776	81776	81777	B17W4	B17W6	B1725	MB17T3	MB17T4

****	Company	m eq o; (e) ed d d e	Semple(s) to be used for abonatory QC:	Additional baimper signature(s):		Upon Receipt	Chain of Custody Beef Number	
<u>' </u>	Analysis Key:	Concentration:	Concentration: L = Low, M = Low/Medium, H = High	TypesDesignate: Composite = C, Grab = G	posite = C, Grab = G		Custody Seel Intact? Shipment load?	Shipment load?
	S-= Suffide, TOC = Total Organic Carbon	M Organic Carbon						

TR Number:

TR Number: 2-462971652-011304-0001 Pt provides preliminary results. Nequests for preliminary results will increase analytical costs. Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20161-3400 Phone 703/264-9348 Fax 703/284-9222

LABORATORY COPY

EPA	SEPA Contract Laboratory P Generic Chain of Custody	t Laboratory Pro of Custody	Program			Reference Case 32512 Client No: 8DQ No:	
Data Shipped: 1/13/2004	1/13/2004	Chain of Custody R	y Record	Stanfor Signature:		For Lab Use Only	
Carter Kalle:		Relinquiched By	(Dete / Time)	Received By	(Date / Time)	Lab Contract No:	
Artifit: Shlooed to:	842135663831 LISEDA REGION II	1 1 4	Mobr (700			Catt Price:	
	Building 209 MS230	<i>)</i> z,				Transfer To:	
	Edison NJ 08837	9				Leb Contract No:	
	000-000 (76)	4				Unit Price:	
SAMPLE No.	MATRIO CONCY SAMPLER TYPE	ANALYBISK TURNARCHARD	TAG No./ PRESERVATING BOSIGES	STATION	SAMPLE COLLECT DATE THE	FOR LAB USE ONLY Sumple Condition On Nacept	ONLY In Resets

							בייא רוסם:	
SAMPLE No.	MATROV SAMPLER	CONC	ANALYBISE TURKAROLNO	TAG NA/ PRESERVATING BOSSOS	STATION	SAMPLE COLLECT DATE THE	FOR LAB USE CALLY For LAB USE CALLY For mile Condition On Necesity	ONLY On Receipt
MB1775	Ground Water	Q	8- (21)	19 (NaOH, Zn Aostato) (1)	CL-3	8: 1/13/2004	12:48	
MB17T6	Ground Water	Q	8-(21)	26 (NeOH, Zn Acetate) (1)	GF-10	8: 1/13/2004	12:56	
MB17T7	Ground Water	Q	S- (21)	33 (NeOH, Zn Acetate) (1)	CL-48	8: 1/13/2004	11:50	
MB17W4	Ground Water	Q	S- (21)	46 (NaOH, Zn Acetata) (1)	EPA-MW-29	8: 1/13/2004	15:46	
MB17W6	Ground Water	б	8- (21)	55 (NaOH, Zn Acetate) (1)	EPA-MW-31	S: 1/13/2004	15:05	
MB17Z6	Ground Water	Q	S- (21)	82 (NaOH, Zn Acetate) (1)	EPA-MW-31D	8: 1/13/2004	16:06	

shpment for Case Complete?N	Bemple(s) to be 1	Nemple(s) to be used for inhoratory QC:	Additional Sampler Signature(a):	Cooler Temperature Upon Receipt	Chain of Guetody Seal Number:	<u> </u>
Analysis Key:	Concentration:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal intect? Shipment lead?	Shipment load?
8- = Sulfide, TOC = Total Organic Carbon	d Organic Carbon					

TR Number: 2-462971652-011304-0001 PR provides prelimitary results. Requests for preliminary results will increase analytical costs. Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/2646348 Fax 703/264-8222 TR Number:

LABORATORY COPY

EPA USEPA Contract Laboratory Program Generic Chain of Custody

Reference Case: 32512

Client No:

R

Region: Project Code:	2	Date Shipped: Carrier Name:	1/13/2004	Chain of Custody	Record	Sampler Signature:	
Account Code:	•	Airbili:	FedEx 842135663831	Relinquished By	(Date / Time)	Received By	(Date / Time)
CERCLIS ID:	NYD047650197	Shipped to:	USEPA REGION II	1 John Hairm	1/13/01 1730	Feder	
Spill ID: Sita Name/State:	02LH Stanton Cleaners Groundwater Contamination		Building 209 MS230 2890 Woodbridge Avenue	20			
Project Leader:	JOHN HUISMAN	ļ	Edison NJ 08837	3			
Action:	Ground Water Monitoring (Post Rod)		(732) 906-6886			_	
Sampling Co:	Earth Tech, inc.			4			

SAMPLE No.	MATRIXI Sampler	CONC/ TYPE	ANALYSISI Turnaround	TAG No./ PRESERVATIVE! Bottles	STATION LOCATION	SAMPLE COLLECTIME	T QC Type
B17T3	Ground Water	/G	TOC (21)	6 (H2SO4), 7 (H2SO4) (2)	CL-1D	S: 1/13/2004 10:30	-
B1774	Ground Water	/G	TOC (21)	13 (H2SO4), 14 (H2SO4) (2)	CL-1S	S: 1/13/2004 8:45	-
B17T5	Ground Water	/G	TOC (21)	20 (H2SO4), 21 (H2SO4) (2)	CL-3	S: 1/13/2004 12:45	
B17T6	Ground Water	/G	TOC (21)	27 (H2SO4), 28 (H2SO4) (2)	CL-4D	S: 1/13/2004 12:55	-
B17T7	Ground Water	/G	TOC (21)	34 (H2SO4), 35 (H2SO4) (2)	CL-4S	S: 1/13/2004 11:50	
B17W4	Ground Water	/G	TOC (21)	49 (H2SO4), 50 (H2SO4) (2)	EPA-MW-29	S: 1/13/2004 15:45	-
B17W6	Ground Water	/G	TOC (21)	56 (H2SO4), 57 (H2SO4) (2)	EPA-MW-31	S: 1/13/2004 15:05	-
B17Z5	Ground Water	/G	TOC (21)	63 (H2SO4), 64 (H2SO4) (2)	EPA-MW-31D	S: 1/13/2004 15:05	Field Duplicate
MB17T3	Ground Water	/G	S- (21)	5 (NaOH, Zn Acetate) (1)	CL-1D	S: 1/13/2004 10:30	-
MB17T4	Ground Water	/G	S- (21)	12 (NaOH, Zn Acetate) (1)	CL-1S	S: 1/13/2004 8:45	
MB17T5	Ground Water	/G	S- (21)	19 (NaOH, Zn Acetate) (1)	CL-3	S: 1/13/2004 12:45	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(a):	Chain of Cuatody Saal Number:
			i
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment lced?
S- = Sulfide, TOC = Total	Organic Carbon		

TR Number: 2-462971652-011304-0001

REGION COPY

EPA USEPA Contract Laboratory Program Generic Chain of Custody

Reference Case: 32512 Client No:

Region: Project Code:	2	Date Shipped: Carrier Name:	1/13/2004 FedEx	Chain of Custody Red		Sampler Signature:	
Account Code: CERCLIS ID:	NYD047650197	Airbill: Shipped to:	842135663831 USEPA REGION II	Relinquished By 1	(Date / Time)	Received By	(Date / Time)
Spill ID: Site Name/State:	02LH Stanton Cleaners Groundwater Contamination		Building 209 MS230 2890 Woodbridge Avenue Edison NJ 08837	2			
Project Leader: Action:	JOHN HUISMAN Ground Water Monitoring (Post Rod)	l	(732) 906-6886	3			
Sampling Co:	Earth Tech, Inc.	<u> </u>		14			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION		ECOLLECT E/TIME	QC Type
MB17T6	Ground Water	IG	S- (21)	26 (NaOH, Zn Acetate) (1)	CL-4D	S: 1/13/2004	12:55	
MB17T7	Ground Water	/G	S- (21)	33 (NaOH, Zn Acetate) (1)	CL-4S	S: 1/13/2004	11:50	
MB17W4	Ground Water	/G	S- (21)	48 (NaOH, Zn Acetate) (1)	EPA-MW-29	S: 1/13/2004	15:45	-
MB17W6	Ground Water	/G	S- (21)	55 (NaOH, Zn Acetate) (1)	EPA-MW-31	S: 1/13/2004	15:05	••
MB17Z5	Ground Water	/G	S- (21)	62 (NaOH, Zn Acetate) (1)	EPA-MW-31D	S: 1/13/2004	15:05	Field Duplicate
MORW	Grand Appler	6	s- é ù Toc(2) Naob, Zn Nadak (1) HESOV (1)	EPA-MW-53	s: I/p/m	y 09:45-	AK 1/15/64

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signsture(s):	Chain of Custody Seal Number:
		<u> </u>	
Analysia Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment iced?
S- = Sulfide, TOC = Total	l Organic Carbon		

TR Number: 2-462971652-011304-0001

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

F2V5.1.045 Page 2 of 2

REGION C

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32512 For Lab Use Only Lab Contract No: Case Ho: DAS NE **3DG No**: (Date / Time) Sempler Signature: Received By Inorganic Traffic Report & Chain of Custody Record Ilisher ... (Date / Time) USEPA Contract Laboratory Program Chain of Custody Record Refinquished By 842135663831 1/13/2004 FedEx Date Bhipped: Carrier Name: Arbili

Shipped to:	II NOICE A DESIGN		11 26	11(3/04 1730			Unit Price:		
	Building 209 MS230		20				-]	
	2890 Woodbridge Avenue	_					Transfer 10:		
	Edison NJ 08837		3				Lab Contract No:	let No:	
			+				Unit Price:		
INORGANIC SAMPLE No.	MATROV	CONIC	ANALYBISF TURKAROUND	TAG No./ PRESERVATIVE BOLLOR	STATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Shriple Condition On Receipt
MB17T3	Ground Water	δ	Ak (21)	1 (Not preserved) (1)	CL-1D	S: 1/13/2004	10:30	B17T3	
MB1774	Ground Water	Q	Ak (21)	8 (Not preserved) (1)	CL-18	S: 1/13/2004	8:45	B1774	
MB17T5	Ground Water	Q	Alk (21)	16 (Not preserved) (1)	CI-3	S: 1/13/2004	12:45	B17T6	
MB17T8	Ground Water	Q	Alk (21)	22 (Not preserved) (1)	CF-4D	8: 1/13/2004	12:55	81776	
MB17T7	Ground Wetter	Q	Alk (21)	29 (Not preserved) (1)	CL-48	8: 1/13/2004	11:50	B17T7	
MB17W4	Ground Water	Q	Alk (21)	44 (Not preserved) (1)	EPA-MW-20	8: 1/13/2004	15:45	B17W4	
MB17W6	Ground Water	Q	Alk (21)	51 (Not preserved) (1)	EPA-MW-31	S: 1/13/2004	15:05	B17W6	
MB1725	Ground Water	ହ	Ak (21)	58 (Not preserved) (1)	EPA-MW-31D	S: 1/13/2004	16:05	81726	the distort
M617 18-8	MBITERS Grand Water	•	VIK (57)	(ast fremal)(s)	ETA-MW-33	s: Iladooy og.ys bywy of	8.4Z	Saf X	L

Snipment for Case Complete?N	Sample(s) to be used for laboratory GO;	for laboratory QC:	Additional Sampler Bignature(s):	Cooler Temperature Upon Receipt	Chain of Custody Seal Number:	ber
Analysis Key:	Concentration: L=	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Shipment lead?	Shipment iced?
Alk = Alkelinity						

TR Number:

TR Number: 2-462971652-011304-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Restion, VA. 20191-3400 Prons 703/264-6348 Fox 703/264-9222

LABORATORY COPY

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

32812

Case No:

WIPA WIPA	Organic Traf	Organic Traffic Report & Chain of Custody Record	stody Rec	ord	DAS No:
Date Shipped: 1/13/2004	1/13/2004	Chain of Custody Record		Sangler Syndien	For Lab Use Only
	FødEx	Refinquished By (Date	(Date / Time)	Received By (Date / Time)	Lab Contract No:
Airbill:	842136663820 Calmic Compositon	1 ha 2/26	instron	Febr	Con Pice:
	10 Deen Knauss Drive	20			TamelerTo:
_	(401) 782-8900	6		•	Lets Condract No:
		4			Unit Price;
	00000171				2000 Bott de capa

							Unit Price:			
ORGANIC SAMPLE No.	MATRO9 SAMPLER	CONC	AMALY288/ TURNAROUND	TAG No./ PRESERVATIVE BOLLOS	STATION	EAMPLE COLLECT DATETINE	5	INORGANIC SAMPLE No.	FOR LAB USE CNLY Sample Condition On Receipt	
81773	Ground Water	ହ	VOA (21)	2 (HCL), 3 (HCL), 4 (HCL) (3)	CL-1D	8: 1/13/2004	10:30			_
B1774	Ground Water	Q	VOA (21)	10 (HCL), 11 (HCL), 9 (HCL) (3)	CL-18	S: 1/13/2004	8:45			
81776	Ground Water	Q	VOA (21)	. 16 (HCL), 17 (HCL), 18 (HCL) (3)	೮೪	8: 1/13/2004	12:45			
81776	Ground Water	ହ	VOA (21)	23 (HCL), 24 (HCL), 26 (HCL) (3)	G ₹10	S: 1/13/2004	12:55			
81777	Ground Water	Q	VOA (21)	30 (HCL), 31 (HCL), 32 (HCL) (3)	CL48	8: 1/13/2004	11:50			
B17W4	Ground Water	Q	VOA (21)	46 (HCL), 48 (HCL), 47 (HCL) (3)	EPA-MW-29	8: 1/13/2004	16:46			
B17W6	Ground Water	Q	VOA (21)	62 (HCL), 63 (HCL), 54 (HCL) (3)	EPA-MW-31	S: 1/13/2004	16:05			
81772	Field QC	Q	VOA (21)	66 (HCL), 66 (HCL), 67 (HCL) (3)	FB-01					
81773	Ground Water	Q	VOA (21)	66 (HCL), 69 (HCL), 70 (HCL) (3)	TB-01					
81725	Ground Water	Q	VOA (21)	58 (HCL), 60 (HCL), 61 (HCL) (3)	EPA-MW-31D	8: 1/13/2004	15:05	14 de	3 *	
BITMS	BITWS Ground White	9	COA (28)	HEL (3)	EPA-MW-33 S: 1/13/2004 09:45 04"	s: 1/13/2004	7:60	ξ 6		

Shipment for Case Completely	n eq ot (e)etdweg	Sample(s) to be used for leboratory QC:	Additional Sampler Signeture(s):	(o):	Cooler Tempersture Upon Receipt	Chem of Custody Seal Number:	198
Analysis Key:	Concentration:	Concentration: L = Low, M = Low/Medlum, H = High	Type/Designate:	Type/Designete: Composite = C, Grab = G		Custody Seal intact? Shipment lead?	Shipment Icad?
VOA = CLP TCL Voletiles			į				

TR Number:

TR Number: 2-462971652-011304-0003
PR provides praiminary results. Nequests for prefilminary results with horses analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/284-6348 Fax 703/284-9222

LABORATORY COPY

EDA USEPA Contract Laboratory Program

&EPA	USEPA C Inorgani	EPA USEPA Contract Laboratory Program Inorganic Traffic Report & Chain of Custody Record	ory Program 8. Chain of C	ustody Record		Case No: DAS No:	32512	8
Region: Project Code:	7		Date Shipped: 1/13/2004	1/13/2004 Fadev	Chain of Custody Record	200	Sempler Signature	
Account Code:			Abi		Relinquished By	(Date / Time)	Received By	(Date / Time)
CERCLIS ID:	NYD047650197	0197	Shipped to:	USEPA REGION !!	-			
Site Name/State:	UZLH Stanton Clea	ozen Stanton Cleaners Groundwater Contaminabor	ination	Building 209 MS230 2880 Woodbridge Avenue	2			 - -
Project Leader:	JOHN HUISMAN	SMAN		Edison NJ 08837 (732) 906-8886	8			
Sempling Co:	Earth Tech, Inc.	, Inc.			4			
INORGANIC	MATRIX	CONC		TAG No./ STATION	SAMPLECOLLECT		OBGANIC	8

continue co.	Earth Fech, inc.	nc.							
INORGANIC SAMPLE No.	MATRIX	CONO	ANALYSIS TURNAROUND	TAGNA/ PRESERVATIVE BOIL	STATION	SAMPLECOLLECT	COLLECT	ORGANIC SAMPLE No.	oc Type
MB17T3	Ground Water	ð	Alk (21)	1 (Not preserved) (1)	CL-1D	S: 1/13/2004	10:30	B17T3	ŧ
MB17T4	Ground Water	Ð	Alk (21)	8 (Not preserved) (1)	CL-1S	S: 1/13/2004	8:45	B17T4	ı
MB17T5	Ground Water	Q	Alk (21)	15 (Not preserved) (1)	CL-3	S: 1/13/2004	12:45	B17T5	l
MB17T6	Ground Water	Q	Alk (21)	22 (Not preserved) (1)	CL-4D	S: 1/13/2004	12:55	B1776	ı
MB17T7	Ground Water	ð	Alk (21)	29 (Not preserved) (1)	CL-48	S: 1/13/2004	11:50	B17T7	i
MB17W4	Ground Water	Q	Alk (21)	44 (Not preserved) (1)	EPA-MW-29	S: 1/13/2004	15:45	B17W4	ı
MB17W6	Ground Water	ð	Alk (21)	51 (Not preserved) (1)	EPA-MW-31	S: 1/13/2004	15:05	B17W6	1
MB1725	Ground Water	Q	Alk (21)	58 (Not preserved) (1)	EPA-MW-31D	S: 1/13/2004 15:05	15:05	81725	Field Duplicate 1/17/64
MEIZERS	MBITANS Grandwater G	3	AIL (U	unt Arsend (s)	EM-MM-	EAR-MW-33 5:1/13/204 04:45 &17W8	23:40	87F18	1

Shipment for Case Complete? N	Sample(s) to be	Sample(s) to be used for laboratory QC:	Additional Sempter Signeture(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration:	Concentration: L = Low, M = Low/Medium, H = High	TyperDeelgnate: Composite = C, Grab = G	Shipment iced?
Alk = Alkalinity				

TR Number: 2-462971652-011304-0002
PR provides preliminary results. Requests for preliminary results will increase enalytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/284-9348 Fax 703/284-9222

REGION COPY

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

Case No: 32512 DAS No:

Region: Project Code:	2			Date Shipped: Carrier Name:	1/13/2004 FedEx		Chain	of Custody	Record		Sampler Signature:	
Account Cod	•:			Airbili:	842135663820		Relinq	uished By	(Date /	rime)	Received By	(Date / Time)
CERCLIS ID:	NYD0476501	197		Shipped to:	Ceimic Corpora	1	1 1	1 Haring	1/13/04	1780	Felox	
Spill ID:	02LH	_			10 Dean Knaus		2	N. 7.966	- 44.4* 1		1.00.2	
Site Name/St Project Leade	Clarker Cha		ndwater Contamination	1	Narraganseti Ri (401) 782-8900							
Action:	ICHN HUIS Ground Wat				,	1	3					
Sampling Co							4		_			<u> </u>
ORGANIC SAMPLE No	MATRIX SAMPLER	CONC	ANALYSIS' TURNAROUND	TAG I		STATION LOCATION			ECOLLECT ETIME		RGANIC PLE No.	QC Type
B17T3	Ground Water	/G	VOA (21)	2 (HCL), 3 (HCL (3)), 4 (HCL)	CL-1D		S: 1/13/2004	10:30	-		-
B17T4	Ground Water	/G	VOA (21)	10 (HCL), 11 (H (3)	CL), 9 (HCL)	CL-18	,	S: 1/13/2004	8:45			•
B17T5	Ground Water	<i>I</i> G	VOA (21)	16 (HCL), 17 (H (HCL) (3)	CL), 18	CL-3	•	S: 1/13/2004	12:45			**
B17T6	Ground Water	/G	VOA (21)	23 (HCL), 24 (H (HCL) (3)	CL), 25	CL-4D		S: 1/13/2004	12:55			
B17T7	Ground Water	Æ	VOA (21)	30 (HCL), 31 (H (HCL) (3)	CL), 32	CL-4S		S: 1/13/2004	11:50			••
B17W4	Ground Water	/G	VOA (21)	45 (HCL), 46 (H (HCL) (3)	CL), 47	EPA-MW-29		S: 1/13/2004	15:45			-
B17W6	Ground Water	/G	VOA (21)	52 (HCL), 53 (H (HCL) (3)	CL), 54	EPA-MW-31		S: 1/13/2004	15:05			-
B17Y2	Field QC	/G	VOA (21)	65 (HCL), 66 (H (HCL) (3)	CL), 67	F8-01						Rinsate
B17Y3	Ground Weter	/G	VOA (21)	68 (HCL), 69 (H (HCL) (3)	CL), 70	TB-01						Trip Blank
B17Z5	Ground Water	/G	VOA (21)	59 (HCL), 60 (H (HCL) (3)	CL), 61	EPA-MW-31D		S: 1/13/2004	15:05			Field Duplicate
B17W9	Grandwater	6	roa (U)	ucc (3)		EPA-PW	33	5: 1/13/20	py 09:	45		

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sempler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, N = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment iced?
VOA = CLP TCL Volatile	3		

TR Number: 2-462971652-011304-0003

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

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

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12V9.1.U49 Page 1 of 1

	Tables T
E	
	Action Management

Phone (913) 829-0101 Fax (913) 829-1181 Olathe, Kansas 66062 15130 B South Keeler

Chain of Custody Record / Request for Analysis

Project Name: Stanton Cleaners LTRA GW Sunding Project Number: 70536, 04.63.01 Sampler's Signature: Project Due Date: Purchase Order Number: Project Comments: Address: 110 Cutter Mill Roa Phone #: (5/6) 466 -8637 Company Name: Earth Tech, Inc Client Contact Name: John Huismun City, State, Zip: Great Nec. Fax #: __

Analyses/Method to be Performed (Check all that apply)

												_		
		Example: high concentration Corntrolnts:	8MLIB	BITWG	8/725	1 81777	1 81776	81774	81773	1 181775	81704		Date/∏me:	Date/Time:
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		Flash Point			Н	Н		Н	Н		Н	Н		
		peer	М		Н		_		H	_	П			
_		ACRAS Metals											6.	•
		PC86											1,3	
		Pestecides/PCBs											F	
		BNAs (SVOCs)		Ц		_		Щ	Щ		Ц	Щ	نخ	خذ
		WITBE (VOCs)		_	Щ	Н		H			<u> </u>	Н) B	Received By:
		BIEX	-	Н			-	Н	Н	_	-	Н		jejve
		TPH Gasoline	 	\vdash			H	H		-		H	<u>%</u>	Rec
		lessig Hqt		Ĭ									2	
^													Date/Time: 1/17/6/1720 Received By:	
Method #>	Preservative List soal number of bottles for each preservative type.	9.₺	'n	5	5	5	5	5	5	2	5		1 %	
질	Preservative total number of bottles such preservative type	DeviseerqnU		1	1		1	~	1	Ī	1			
ye t	Preservative number of br preservative	'OS'H	_	1	1	1	1	1	7	[]	1		6	9:
~	228	HOBN											L	Date/Time:
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nelle d	- *	Total # Container	17	5	5	15	5	5	2	77	5	Н	١ .	
		Matrix	BW	GW	CN	C47	m9	GW	M9	CW	m9		1	
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			$ ^{\circ}$	//		Ш	//	7	\perp	11	71	Н		4
Laboratory Project Number		Sample Description	EPA-MV-33	FPA- MW-31	EPA- MW-31D	CF-45	Qh-72	CL-15	Q1-	-3	EPA-MW-29		Inquished By:	o D Relinquished By:
\$		d L	\$	7	4	7	70	6	7	E-75	74-		8	8
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By signing the request (chain of custody) you are ordering work from Analytical Management Laboratories, inc. which constitutes the acceptance of the terms and conditions on the back of this form.

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USEPA Contract Laboratory Program Generic Chain of Custody

Client No:

SDG No:

							050110.	
Date Shipped: 1/14/2004		Chain of Custody F	Record	Sampler Signature:		For Lab Use Onl	ly	
	Carrier Name:	FedEx	Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No:	
	Airbili:	842135658821	1		1		Unit Price:	
	Shipped to:	USEPA REGION II Building 209 MS230	2		 		Olint Price:	
	2890 Woodbridge Avenue		<u> </u>				Transfer To:	
		Edison NJ 08837 (732) 906-6886	3				Lab Contract No:	
		(102) 303 3000	4				Unit Price:	

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRE SERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
B17W5	Ground Water	/G	TOC (21)	55 (H2SO4), 56 (H2SO4) (2)	EPA-MW-30	S: 1/14/2004 16:45	
B17W7	Ground Water	/G	TOC (21)	111 (H2SO4), 112 (H2SO4), 113 (H2SO4), 114 (H2SO4), 115 (H2SO4), 116 (H2SO4)	EPA-MW-32	S: 1/14/2004 14:40	
B17W9	Ground Water	/G	TOC (21)	(6) 82 (H2SO4), 83 (H2SO4) (2)	EPA-MW-9A	S: 1/14/2004 16:30	
B17X0	Ground Water	/G	TOC (21)	62 (H2SO4), 63 (H2SO4) (2)	EPA-MW-11D	S: 1/14/2004 9:00	
B17X3	Ground Water	/G	TOC (21)	69 (H2SO4), 70 (H2SO4) (2)	ST-MW-11	S: 1/14/2004 11:30	
B17X4	Ground Water	/G	TOC (21)	20 (H2SO4), 21 (H2SO4) (2)	ST-MW-12	S: 1/14/2004 12:30	
B17X9	Ground Water	/G	TOC (21)	6 (H2SO4), 7 (H2SO4) (2)	ST-MW-17	S: 1/17/2004 9:45	
B17Y1	Ground Water	/G	TOC (21)	13 (H2SO4), 14 (H2SO4) (2)	ST-MW-20	S: 1/14/2004 15:00	
MB17W5	Ground Water	/G	S- (21)	54 (NaOH, Zn Acetate) (1)	EPA-MW-30	S: 1/14/2004 16:45	
MB17W7	Ground Water	/G	S- (21)	108 (NaOH, Zn Acetate), 109 (NaOH, Zn Acetate), 110 (NaOH, Zn Acetate) (3)	EPA-MW-32	S: 1/14/2004 14:40	

Complete?N	Sample(s) to be used for laboratory QC: B17W7, MB17W7	• • •	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:	
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	3	Custody Seal Intact?	Shipment iced?
S- = Sulfide, TOC = Tota	l Organic Carbon				

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USEPA Contract Laboratory Program Generic Chain of Custody

Reference	Case	32512
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Client No:

enc	N.
JUG	131

Date Shipped: Carrier Name:	1/14/2004 FedEx	Chain of Custody Record		Sampler Signature:		For Lab Use Only
		Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No:
Airblil:	842135658821 to: USEPA REGION II Building 209 MS230 2890 Woodbridge Avenue Edison NJ 08837 (732) 906-6886	1		 		
Shipped to:		'		<u> </u>		Unit Price:
		2				Transfer To:
		3				Lab Contract No:
		4				Unit Price:

						Ontend	.e.
SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
MB17W9	Ground Water	/G	S- (21)	81 (NaOH, Zn Acetate) (1)	EPA-MW-9A	S: 1/14/2004 16:30	
MB17X0	Ground Water	/G	S- (21)	61 (NaOH, Zn Acetate) (1)	EPA-MW-11D	S: 1/14/2004 9:00	
MB17X3	Ground Water	/G	S- (21)	68 (NaOH, Zn Acetate) (1)	ST-MW-11	S: 1/14/2004 11:30	
MB17X4	Ground Water	/G	S- (21)	19 (NaOH, Zn Acetate) (1)	ST-MW-12	S: 1/14/2004 12:30	
MB17X9	Ground Water	/G	S- (21)	5 (NaOH, Zn Acetate) (1)	ST-MW-17	S: 1/17/2004 9:45	
MB17Y1	Ground Water	/G	S- (21)	12 (NaOH, Zn Acetate) (1)	ST-MW-20	S: 1/14/2004 15:00	

Complete?N	Sample(s) to be used for laboratory QC: B17W7, MB17W7	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:						
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	;	Custody Seal Intact?	Shipment Iced?					
S- = Sulfide, TOC = Total Organic Carbon										

EPA USEPA Contract Laboratory Program Generic Chain of Custody

Reference Case: 32512

Client No:

R

Region:	2	Date Shipped:	1/14/2004	Chain of Custody Re	ecord	Sampler	
Project Code:		Carrier Name:	FedEx			Signature:	
Account Cade:	•	Airbili:	842135658821	Relinquished By	(Date / Time)	Received By	(Date / Time)
CERCLIS ID:	NYD047650197	Shipped to:	USEPA REGION II	1			·
Spill ID:	02LH		Building 209 MS230				
Site Name/State:	Stanton Cleaners Groundwater Contaminati	1	2890 Woodbridge Avenue	2			
Project Leader:	JOHN HUISMAN		Edison NJ 08837 (732) 906-6886	3	<u> </u>		
Action:	Ground Wat	}	(732) 900-0000				
Sampling Co:	Earth Tech, Inc.			4			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No. STATION PRESERVATIVE/ Bottles LOCATION			COLLECT E/TIME	QC Type
B17W5	Ground Water	/G	TOC (21)	55 (H2SO4), 56 (H2SO4) (2)	EPA-MW-30	S: 1/14/2004	16:45	_
B17W7	Ground Water	/G	TOC (21)	111 (H2SO4), 112 (H2SO4), 113 (H2SO4), 114 (H2SO4), 115 (H2SO4), 116 (H2SO4)	EPA-MW-32	S: 1/14/2004	14:40	MSMSD
B17W9	Ground Water	/G	TOC (21)	(6) 82 (H2SO4), 83 (H2SO4) (2)	EPA-MW-9A	S: 1/14/2004	16:30	
B17X0	Ground Water	/G	TOC (21)	62 (H2SO4), 63 (H2SO4) (2)	EPA-MW-11D	S: 1/14/2004	9:00	
B17X3	Ground Water	/G	TOC (21)	69 (H2SO4), 70 (H2SO4) (2)	ST-MW-11	S: 1/14/2004	11:30	-
B17X4	Ground Water	/G	TOC (21)	20 (H2SO4), 21 (H2SO4) (2)	ST-MW-12	S: 1/14/2004	12:30	
B17X9	Ground Water	/G	TOC (21)	6 (H2SO4), 7 (H2SO4) (2)	ST-MW-17	S: 1/17/2004	9:45	-
B17Y1	Ground Water	/G	TOC (21)	13 (H2SO4), 14 (H2SO4) (2)	ST-MW-20	S: 1/14/2004	15:00	. -
MB17W5	Ground Water	/G	S- (21)	54 (NaOH, Zn Acetate) (1)	EPA-MW-30	S: 1/14/2004	16:45	-
MB17W7	Ground Water	/G	S- (21)	108 (NaOH, Zn Acetate), 109 (NaOH, Zn Acetate), 110 (NaOH, Zn Acetate) (3)	EPA-MW-32	S: 1/14/2004	14:40	MSMSD

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:	
	B17W7, MB17W7			
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment iced?	
S- = Sulfide, TOC = Total	al Organic Carbon			

TR Number: 2-462971652-011404-0001

EPA USEPA Contract Laboratory Program Generic Chain of Custody

Reference Case: 32512

Client No:

R

Region: Project Code:		Date Shipped:	1/14/2004 FedEx	Chain of Custody I	Record	Sampler Signature:	
Account Code:	1	Airbiil:	842135658821	Relinquished By	(Date / Time)	Received By	(Date / Time)
CERCLIS ID:	NYD047650197	Shipped to:	USEPA REGION II	1			
Spili ID:	02LH	,	Building 209 MS230				
Site Name/State:	Stanton Cleaners Groundwater Contaminati		2890 Woodbridge Avenue	2			
Project Leader:	JOHN HUISMAN		Edison NJ 08837 (732) 906-6886	3			
Action:	Ground Wat		(732) 300-0000				
Sampling Co:	Earth Tech, Inc.			4			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
MB17W9	Ground Water	/G	S- (21)	81 (NaOH, Zn Acetate) (1)	EPA-MW-9A	S: 1/14/2004 16:30	
MB17X0	Ground Water	/G	S- (21)	61 (NaOH, Zn Acetate) (1)	EPA-MW-11D	S: 1/14/2004 9:00	
MB17X3	Ground Water	/G	S- (21)	68 (NaOH, Zn Acetate) (1)	ST-MW-11	S: 1/14/2004 11:30	
MB17X4	Ground Water	/G	S- (21)	19 (NaOH, Zn Acetate) (1)	ST-MW-12	S: 1/14/2004 12:30	
MB17X9	Ground Water	/G	S- (21)	5 (NaOH, Zn Acetate) (1)	ST-MW-17	S: 1/17/2004 9:45	-
MB17Y1	Ground Water	/G	S- (21)	12 (NaOH, Zn Acetate) (1)	ST-MW-20	S: 1/14/2004 15:00	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: B17W7, MB17W7	Additional Sampler Signature(s):	Chain of Custody Seal Number:	
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?	
S- = Sulfide, TOC = Tota	l Organic Carbon			

TR Number: 2-462971652-011404-0001

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V	L.	

Case No:	32512	
DAS No:		
SDG No:		L

Date Shipped: Carrier Name:	1/14/2004	Chain of Custody F	Record	Sampler Signature:		For Lab Use Onl	у
	FedEx	Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No:	
Airbill:	842135658821	1					
Shipped to:	USEPA REGION II					Unit Price:	
	Building 209 MS230 2890 Woodbridge Avenue	2				Transfer To:	
	Edison NJ 08837 (732) 906-6886	3				Lab Contract No:	
	(102) 000-0000	4				Unit Price:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No.J PRE SERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLEC DATE/TIME	ORGANIC SAMPLE No	FOR LAB USE ONLY Sample Condition On Receipt
MB17W5	Ground Water	/G	Alk (21)	50 (Not preserved) (1)	EPA-MW-30	S: 1/14/2004	l6:45 B17W5	
MB17W7	Ground Water	/G	Alk (21)	90 (Not preserved), 91 (Not preserved), 92 (Not preserved) (3)	EPA-MW-32	S: 1/14/2004	14:40 B17W7	
MB17W9	Ground Water	/G	Alk (21)	71 (Not preserved) (1)	EPA-MW-9A	S: 1/14/2004	16:30 B17W9	
MB17X0	Ground Water	/G	Alk (21)	57 (Not preserved) (1)	EPA-MW-11D	S: 1/14/2004	9:00 B17X0	
MB17X3	Ground Water	/G	Alk (21)	64 (Not preserved) (1)	ST-MW-11	S: 1/14/2004	11:30 B17X3	
MB17X4	Ground Water	/G	Alk (21)	15 (Not preserved) (1)	ST-MW-12	S: 1/14/2004	12:30 B17X4	
MB17X9	Ground Water	/G	Alk (21)	1 (Not preserved) (1)	ST-MW-17	S: 1/17/2004	9:45 B17X9	
MB17Y1	Ground Water	/G	Alk (21)	8 (Not preserved) (1)	ST-MW-20	S: 1/14/2004	15:00 B17Y1	

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: MB17W7	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:	
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Shipment iced?	
Alk = Alkalinity					

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Case No:

DAS No:

32512

Region: Project Code:	2	Date Shipped: Carrier Name:	1/14/2004	Chain of Custody	Record	Sampler Signature:	
Account Code:	•	Airbill:	FedEx 842135658821	Relinquished By	(Date / Time)	Received By	(Date / Time)
CERCLIS ID:	NYD047650197	Shipped to:	USEPA REGION II	1			
Spill ID:	02LH		Building 209 MS230				
Site Name/State:	Stanton Cleaners Groundwater Contaminati		2890 Woodbridge Avenue				
Project Leader:	JOHN HUISMAN		Edison NJ 08837 (732) 906-6886	3			
Action:	Ground Wat		(132) 300-0000	<u> </u>			
Sampling Co:	Earth Tech, Inc.			4			

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION		COLLECT E/TIME	ORGANIC SAMPLE No.	QC Type
MB17W5	Ground Water	/G	Alk (21)	50 (Not preserved) (1)	EPA-MW-30	S: 1/14/2004	16:45	B17W5	
MB17W7	Ground Water	/G	Alk (21)	90 (Not preserved), 91 (Not preserved), 92 (Not preserved) (3)	EPA-MW-32	S: 1/14/2004	14:40	B17W7	MSMSD
MB17W9	Ground Water	/G	Alk (21)	71 (Not preserved) (1)	EPA-MW-9A	S: 1/14/2004	16:30	B17W9	
MB17X0	Ground Water	/G	Alk (21)	57 (Not preserved) (1)	EPA-MW-11D	S: 1/14/2004	9:00	B17X0	
MB17X3	Ground Water	/G	Alk (21)	64 (Not preserved) (1)	ST-MW-11	S: 1/14/2004	11:30	B17X3	
MB17X4	Ground Water	/G	Alk (21)	15 (Not preserved) (1)	ST-MW-12	S: 1/14/2004	12:30	B17X4	-
MB17X9	Ground Water	/G	Alk (21)	1 (Not preserved) (1)	ST-MW-17	S: 1/17/2004	9:45	B17X9	
MB17Y1	Ground Water	/G	AJk (21)	8 (Not preserved) (1)	ST-MW-20	S: 1/14/2004	15:00	B17Y1	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MB17W7	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?
Alk ≈ Alkalinity		·	

TR Number: 2-462971652-011404-0002

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Case No:	32512	
DAS No:		
SDG No:		<u>L</u>

						3DG NO:	
Date Shipped:	1/14/2004	Chain of Custody	Record	Sampler Signature:		For Lab Use Onl	у
Carrier Name:	FedEx	Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No:	
Airbill: Shipped to:	842135658800 Ceimic Corporation	1				Unit Price:	
	10 Dean Knauss Drive Narragansett RI 02882	2				Transfer To:	
	(401) 782-8900	3				Lab Contract No:	
		4				Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRE SERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
B17W5	Ground Water	/G	VOA (21)	51 (HCL), 52 (HCL), 53 (HCL) (3)	EPA-MW-30	S: 1/14/2004 16:4	5	
B17W7	Ground Water	/G	VOA (21)	100 (HCL), 101 (HCL), 93 (HCL), 94 (HCL), 95 (HCL), 96 (HCL), 97 (HCL), 98	EPA-MW-32	S: 1/14/2004 14:4	10	
B17W9	Ground Water	/G	VOA (21)	(HCL), 99 (HCL) (9) 78 (HCL), 79 (HCL), 80 (HCL) (3)	EPA-MW-9A	S: 1/14/2004 16:	30	
B17X0	Ground Water	/G	VOA (21)	58 (HCL), 59 (HCL), 60 (HCL) (3)	EPA-MW-11D	S: 1/14/2004 9:0	0	
B17X3	Ground Water	/G	VOA (21)	65 (HCL), 66 (HCL), 67 (HCL) (3)	ST-MW-11	S: 1/14/2004 11:	30	
B17X4	Ground Water	/G	VOA (21)	16 (HCL), 17 (HCL), 18 (HCL) (3)	ST-MW-12	S: 1/14/2004 12:	30	
B17X9	Ground Water	/G	VOA (21)	2 (HCL), 3 (HCL), 4 (HCL) (3)	ST-MW-17	S: 1/17/2004 9:4	5	
B17Y1	Ground Water	/G	VOA (21)	10 (HCL), 11 (HCL), 9 (HCL) (3)	ST-MW-20	S: 1/14/2004 15:0	00	
B17Y4	Field QC	/G	VOA (21)	84 (HCL), 85 (HCL), 86 (HCL) (3)	FB-02	S: 1/14/2004 6:3	0	
B17Y5	Ground Water	/G	VOA (21)	87 (HCL), 88 (HCL), 89 (HCL) (3)	TB-02	S: 1/14/2004		

Shipment for Case Complete 7N	Sample(s) to be used for laboratory QC: B17W7	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Num	ber:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = C		Custody Seal Intact?	Shipment Iced?
VOA = CLP TCL Volatile	98				

TR Number: 2-462971652-011404-0003

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USEPA Contract Laboratory Program	Organic Traffic Report & Chain of Custody Record
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32512 Case No: DAS No:

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Region:	7			Date Shipped: 1/14/2004	<u>ಕ</u>	Chain of Custody Record	\ecord	Sampler	
Account Code:	•		_	Мате:	<u>8</u>	Relinguished By	(Date / Time)	Received By	(Date / Time)
CERCLIS ID:	NYD047650197	197			<u> </u>	(a.)	(a)	(a passage)	(2000)
Spill ID:	02LH			Snipped to: Ceimic Corporation 10 Dean Knauss Drive	- <u> </u>				
Site Name/State:		aners Groundw	Stanton Cleaners Groundwater Contaminati	Naraganset Ri 02882	182 2				
Project Leader: Action:	: JOHN HUISMAN Ground Wat	MAN		0089-797 (104)	ဗ				
Sampling Co:	Earth Tech, Inc.	Inc.			4				
ORGANIC SAMPLE No.	MATRX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAGNO/ PRESERVATIVE/ Bottles	STATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
B17W5	Ground Water	9/	VOA (21)	51 (HCL), 52 (HCL), 53 (HCL) (3)	EPA-MW-30	S: 1/14/2004	16:45		i
B17W7	Ground Water	9/	VOA (21)	100 (HCL), 101 (HCL), 93 (HCL), 94 (HCL), 95 (HCL), 96 (HCL), 97 (HCL), 98 (HCL), 99 (HCL), 99	EPA-MW-32	S: 1/14/2004	14:40	_	MSMSD
B17W9	Ground Water	ව/	VOA (21)	(HCL) (3) (HCL), 80 (HCL) (3)	EPA-MW-9A	S: 1/14/2004	16:30		1
B17X0	Ground Water	ව/	VOA (21)	58 (HCL), 59 (HCL), 60 (HCL) (3)	EPA-MW-11D	S: 1/14/2004	00:6		ı
B17X3	Ground Water	9/	VOA (21)	65 (HCL), 66 (HCL), 67 (HCL) (3)	ST-MW-11	S: 1/14/2004	11:30		·
B17X4	Ground Water	ე/	VOA (21)	16 (HCL), 17 (HCL), 18 (HCL) (3)	ST-MW-12	S: 1/14/2004	12:30		1
B17X9	Ground Water	ე/	VOA (21)	2 (HCL), 3 (HCL), 4 (HCL) (3)	ST-MW-17	S: 1/17/2004	9:45		ı
B17Y1	Ground Water	ე	VOA (21)	10 (HCL), 11 (HCL), 9 (HCL) (3)	ST-MW-20	S: 1/14/2004	15:00		ł
B17Y4	Field QC	ე/	VOA (21)	84 (HCL), 85 (HCL), 86 (HCL) (3)	FB-02	S: 1/14/2004	6:30		Rinsate
B17Y5	Ground Water	ପ୍ର	VOA (21)	87 (HCL), 88 (HCL), 89 (HCL) (3)	TB-02	S: 1/14/2004		F	Trip Blank

Shipment for Case	Sample(s) to be o	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
	B17W7			
Analysis Key:	Concentration:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	ant Iced?
VOA = CLP TCL Volatities	Se Se			

TR Number: 2-462971652-011404-0003

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

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

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Olathe, Kansas 66062 Phone (913) 829-0101 Fax (913) 829-1181 15130 B South Keeler

Case# 32512

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Project Name: Starten Charges LTRA GUSSIN, pling	Project Number: 70536,04,03,01	Purchase Order Number:	Project Due Date:	Project Comments:	Sampler's Signature: # 74.	Anchorage Mathematics Inc. Book and the state of the stat
Client Contact Name: John Huisman	Company Name: Earth Tech, Inc.	Address: 110 Cutter Mill Road	City, State, ZIp. Creat Neck, ALY 11031	Phone #: (516) 46/0 -8637	Fax #: ()	

Please include any information that may be useful in the analysis of the sample. Example: high concentration Comments RITW7 BITX9 81741 BI 7W7 BITW 7 817X Withk, Sulfe, Chrose Hd Paint Filter ACRAS Metals ego. Pestecides/PCBs BNAs (SVOC6) es (VOCs) BETTM хэц TPH Gasoline eseiG H91 Method # ---> Preservative List total number of bottles for each preservative type. 1. C S paviessidur **'05**1 HOPN HICK Total # Containers Matrix SE 1500 055 0440 [4104] EPA-MW-32 MSD 11/4/04 Date 1.00% 1.00% 1.00% EPA-MM-32MS Sample Description 5T-MW - 20 5PA-MW-32 5T- MM - 17 EPA-MW-IID Lab (D

B Relinquished By:	J. A.	Date/Time:	Millor	1350 Received By:	Filex	Date/Time:	
o y Relinquished By:		Date/Time:		Received By:		Date/Time:	

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By signing the request (chain of custody) you are ordering work from Analydical Management Laboratories, inc. which constitutes the acceptance of the terms and conditions on the back of this form.

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USEPA Contract Laboratory Program Generic Chain of Custody

Ref	erence Case 32512	
Clier	nt No:	1
SDG	No:	

					<u> </u>		
Date Shipped: Carrier Name:	1/15/2004	Chain of Custody	Record	Sampler Signature:		For Lab Use Oni	y
	FedEx	Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No:	
Airbill:	842135658762	1					
Shipped to:	USEPA REGION II					Unit Price:	
	Building 209 MS230 2890 Woodbridge Avenue	2				Transfer To:	
	Edison NJ 08837 (732) 906-6886	3				Lab Contract No:	
		4				Unit Price:	

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLI DATE/TIMI		FOR LAB USE ONLY Sample Condition On Receip
B17T8	Ground Water	/G	TOC (21)	6 (H2SO4), 7 (H2SO4) (2)	EPA-MW-21	S: 1/15/2004	11:00	
B17T9	Ground Water	/G	TOC (21)	117 (H2SO4), 118 (H2SO4) (2)	EPA-MW-22	S: 1/15/2004	9:30	
B17W0	Ground Water	/G	TOC (21)	222 (H2SO4), 223 (H2SO4), 224 (H2SO4), 225 (H2SO4), 226 (H2SO4), 227 (H2SO4)	EPA-MW-23	S: 1/15/2004	9:40	
B17W1	Ground Water	/G	TOC (21)	(6) 233 (H2SO4), 234 (H2SO4) (2)	EPA-MW-25	S: 1/15/2004	11:50	
B17W3	Ground Water	/G	TOC (21)	131 (H2SO4), 132 (H2SO4) (2)	EPA-MW-27	S: 1/15/2004	15:10	
B17X1	Ground Water	/G	TOC (21)	124 (H2SO4), 125 (H2SO4) (2)	ST-MW-02	S: 1/15/2004	13:00	
B17X2	Ground Water	/G	TOC (21)	205 (H2SO4), 206 (H2SO4) (2)	ST-MW-06	S: 1/15/2004	16:45	
B17X6	Ground Water	/G	TOC (21)	247 (H2SO4), 248 (H2SO4) (2)	ST-MW-14	S: 1/15/2004	15:45	
B17X8	Ground Water	/G	TOC (21)	240 (H2SO4), 241 (H2SO4) (2)	ST-MW-16	S: 1/15/2004	13:45	
B17Y6	Field QC	/G	TOC (21)	257 (H2SO4), 258 (H2SO4) (2)	FB-03	S: 1/15/2004	6:30	

Complete?N	Sample(s) to be used for laboratory QC: B17W0, MB17W0	, , ,	Cooler Temperature Upon Receipt:	Chain of Custody Seal Numb	er:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?	Shipment Iced?
S- = Sulfide, TOC = Tota	al Organic Carbon				



USEPA Contract Laboratory Program Generic Chain of Custody

Reference Case 32512	_
Client No:	
SDG No:	L

	Generic Chain o	i Custouy				SDG No:	L
Date Shipped:	1/15/2004	Chain of Custody	Record	Sampler Signature:		For Lab Use Only	
Carrier Name:	FedEx	Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No:	 _
Airbill: Shipped to:	842135658762 USEPA REGION II	1				Unit Price;	
J,pp00 (0.	Building 209 MS230 2890 Woodbridge Avenue	2				Transfer To:	
	Edison NJ 08837 (732) 906-6886	3				Lab Contract No:	
	(132) 300-0000	4				Unit Price:	

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRE SERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
B17Y7	Ground Water	/G	TOC (21)	264 (H2SO4), 265 (H2SO4) (2)	TB-03	S: 1/15/2004	
B17Z4	Ground Water	/G	TOC (21)	13 (H2SO4), 14 (H2SO4) (2)	EPA-MW-21D	S: 1/15/2004 11:00	
MB17T8	Ground Water	/G	S- (21)	5 (NaOH, Zn Acetate) (1)	EPA-MW-21	S: 1/15/2004 11:00	
MB17T9	Ground Water	/G	S- (21)	19 (NaOH, Zn Acetate) (1)	EPA-MW-22	S: 1/15/2004 9:30	
MB17W0	Ground Water	/G	S- (21)	219 (NaOH, Zn Acetate), 220 (NaOH, Zn Acetate),	EPA-MW-23	S: 1/15/2004 9:40	
MB17W1	Ground Water	/G	S- (21)	221 (NaOH, Zn Acetate) (3) 232 (NaOH, Zn Acetate) (1)	EPA-MW-25	S: 1/15/2004 11:50	
MB17W3	Ground Water	/G	S- (21)	130 (NaOH, Zn Acetate) (1)	EPA-MW-27	S: 1/15/2004 15:10	
MB17X1	Ground Water	/G	S- (21)	123 (NaOH, Zn Acetate) (1)	ST-MW-02	S: 1/15/2004 13:00	
MB17X2	Ground Water	/G	S- (21)	204 (NaOH, Zn Acetate) (1)	ST-MW-06	S: 1/15/2004 16:45	
MB17X6	Ground Water	/G	S- (21)	246 (NaOH, Zn Acetate) (1)	ST-MW-14	S: 1/15/2004 15:45	

Complete?N	Sample(s) to be used for laboratory QC: B17W0, MB17W0	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:	
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?	Shipment Iced?
S- = Sulfide, TOC = Tota	al Organic Carbon				

TR Number: 2-462971652-011504-0001

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USEPA Contract Laboratory Program Generic Chain of Custody

Reference Case 32512	_
Client No:	
SDG No:	

						SDC NO.		
Date Shipped:	1/15/2004	Chain of Custody Ro	ecord	Sampler Signature:		For Lab Use On	ly	
Carrier Name:	FedEx	Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No:		
Airbill:	842135658762	1		1		7		
Shipped to:	USEPA REGION II Building 209 MS230	2		 		Unit Price:		-
	2890 Woodbridge Avenue					Transfer To:		_
	Edison NJ 08837 (732) 906-6886	3		_		Lab Contract No:		
	(102) 000 0000	4				Unit Price:		
				3		Unit Price.		

								Office Frice.	
SAMPLE No.		MATRIX/ SAMPLER			TAG No./ PRESERVATIVE/ Bottles	*****		LECT E	FOR LAB USE ONLY Sample Condition On Receipt
MB1	7X8	Ground Water	/G	S- (21)	239 (NaOH, Zn Acetate) (1)	ST-MW-16	S: 1/15/2004	13:45	
MB1	7Y6	Field QC	/G	S- (21)	256 (NaOH, Zn Acetate) (1)	FB-03	S: 1/15/2004	6:30	
MB1	7 Y7	Ground Water	/G	S- (21)	263 (NaOH, Zn Acetate) (1)	TB-03	S: 1/15/2004		
MB1	7 Z 4	Ground Water	/G	S- (21)	12 (NaOH, Zn Acetate) (1)	EPA-MW-21D	S: 1/15/2004	11:00	

Complete?N	Sample(s) to be used for laboratory QC: B17W0, MB17W0	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Shipment Iced?
S- = Sulfide, TOC = Tota	l Organic Carbon			

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USEPA Contract Laboratory Program Generic Chain of Custody

Reference Case: 32512

Client No:

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Region:	2	Date Shipped:	1/15/2004	Chain of Custody F	Record	Sampler	
Project Code:		Carrier Name:	FedEx			Signature:	
Account Code:	•	Airbiil:	842135658762	Relinquished By	(Date / Time)	Received By	(Date / Time)
CERCLIS ID:	NYD047650197	Shipped to:	USEPA REGION II	1			
Spill ID:	02LH		Building 209 MS230	 		 	
Site Name/State:	Stanton Cleaners Groundwater Contaminati]	2890 Woodbridge Avenue] 2			
Project Leader:	JOHN HUISMAN	1	Edison NJ 08837 (732) 906-6886	3			
Action:	Ground Wat	į	(732) 900-0000			ļ	
Sampling Co:	Earth Tech, Inc.			4			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION		COLLECT E/TIME	QC Type
B17T8	Ground Water	/G	TOC (21)	6 (H2SO4), 7 (H2SO4) (2)	EPA-MW-21	S: 1/15/2004	11:00	-
B17T9	Ground Water	/G	TOC (21)	117 (H2SO4), 118 (H2SO4) (2)	EPA-MW-22	S: 1/15/2004	9:30	
B17W0	Ground Water	/G	TOC (21)	222 (H2SO4), 223 (H2SO4), EPA-MW-23 S: 1/15/2004 9:40 224 (H2SO4), 225 (H2SO4), 227 (H2SO4) (6)		MS/MSD		
B17W1	Ground Water	/G	TOC (21)	233 (H2SO4), 234 (H2SO4) (2)	EPA-MW-25	S: 1/15/2004	11:50	-
B17W3	Ground Water	/G	TOC (21)	131 (H2SO4), 132 (H2SO4) (2)	EPA-MW-27	S: 1/15/2004	15:10	-
B17X1	Ground Water	/G	TOC (21)	124 (H2SO4), 125 (H2SO4) (2)	ST-MW-02	S: 1/15/2004	13:00	
B17X2	Ground Water	/G	TOC (21)	205 (H2SO4), 206 (H2SO4) (2)	ST-MW-06	S: 1/15/2004	16:45	
B17X6	Ground Water	/G	TOC (21)	247 (H2SO4), 248 (H2SO4) (2)	ST-MW-14	S: 1/15/2004	15:45	
B17X8	Ground Water	/G	TOC (21)	240 (H2SO4), 241 (H2SO4) (2)	ST-MW-16	S: 1/15/2004	13:45	-
B17Y6 .	Field QC	/G	TOC (21)	257 (H2SO4), 258 (H2SO4) (2)	FB-03	S: 1/15/2004	6:30	Rinsate

Shi pment for Case Complete? N	Sample(s) to be used for laboratory QC: B17W0, MB17W0	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment iced?
S- = Sulfide, TOC = Tota	of Organic Carbon		

TR Number: 2-462971652-011504-0001

Q.	FΡΔ	U
V		L C

USEPA Contract Laboratory Program Generic Chain of Custody

Reference Case: 32512

Client No:

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Region: Project Code:	2	Date Shipped:		Chain of Custody Re	cord	Sampler Signature:	
Account Code:	,	Airbill:	842135658762	Relinquished By	(Date / Time)	Received By	(Date / Time)
CERCLIS ID:	NYD047650197	Shipped to:	USEPA REGION II	1			
Spill ID:	02LH		Building 209 MS230			<u> </u>	
Site Name/State:	Stanton Cleaners Groundwater Contaminati		2890 Woodbridge Avenue	2			_
Project Leader:	JOHN HUISMAN	1	Edison NJ 08837 (732) 906-6886	3			
Action:	Ground Wat						
Sampling Co:	Earth Tech, Inc.			4	I		

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
B17Y7	Ground Water	/G	TOC (21)	264 (H2SO4), 265 (H2SO4) (2)	TB-03	S: 1/15/2004	Trip Blank
B17Z4	Ground Water	/G	TOC (21)	13 (H2SO4), 14 (H2SO4) (2)	EPA-MW-21D	S: 1/15/2004 11:00	Field Duplicate
MB17T8	Ground Water	/G	S- (21)	5 (NaOH, Zn Acetate) (1)	EPA-MW-21	S: 1/15/2004 11:00	-
MB17T9	Ground Water	/G	S- (21)	19 (NaOH, Zn Acetate) (1)	EPA-MW-22	S: 1/15/2004 9:30	-
MB17W0	Ground Water	/G	S- (21)	219 (NaOH, Zn Acetate), 220 (NaOH, Zn Acetate),	EPA-MW-23	S: 1/15/2004 9:40	MS/MSD
MB17W1	Ground Water	/G	S- (21)	221 (NaOH, Zn Acetate) (3) 232 (NaOH, Zn Acetate) (1)	EPA-MW-25	S: 1/15/2004 11:50	
MB17W3	Ground Water	/G	S- (21)	130 (NaOH, Zn Acetate) (1)	EPA-MW-27	S: 1/15/2004 15:10	
MB17X1	Ground Water	/G	S- (21)	123 (NaOH, Zn Acetate) (1)	ST-MW-02	S: 1/15/2004 13:00	-
MB17X2	Ground Water	/G	S- (21)	204 (NaOH, Zn Acetate) (1)	ST-MW-06	S: 1/15/2004 16:45	-
MB17X6	Ground Water	/G	S- (21)	246 (NaOH, Zn Acetate) (1)	ST-MW-14	S: 1/15/2004 15:45	7
MB17X8	Ground Water	/G	S- (21)	239 (NaOH, Zn Acetate) (1)	ST-MW-16	S: 1/15/2004 13:45	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:	
	B17W0, MB17W0			
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?	
S- = Sulfide, TOC = Total	ai Organic Carbon			

TR Number: 2-462971652-011504-0001

USEPA Contract Laboratory Program Generic Chain of Custody

Reference Case: 32512

Client No:

Region: Project Code:	2	Date Shipped: Carrier Name:	1/15/2004 FedEx	Chain of Custody Re	ecord	Sampler Signature:	
Account Code:	•	Airbill:	842135658762	Relinquished By	(Date / Time)	Received By	(Date / Time)
CERCLIS ID:	NYD047650197	Shipped to:	USEPA REGION II	1			
Spill ID:	02LH		Building 209 MS230 2890 Woodbridge Avenue Edison NJ 08837 (732) 906-6886			 	
Site Name/State:	Stanton Cleaners Groundwater Contaminati			2			_
Project Leader:	JOHN HUISMAN			3			
Action:	Ground Wat			_ -			
Sampling Co:	Earth Tech, Inc.			4		Į.	

SAMPLE No.	MATRIX/ Sampler	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE (DATE/		QC Type
MB17Y6	Field QC	/G	S- (21)	256 (NaOH, Zn Acetate) (1)	FB-03	S: 1/15/2004	6:30	Rinsate
MB17Y7	Ground Water	/G	S- (21)	263 (NaOH, Zn Acetate) (1)	TB-03	S: 1/15/2004		Trip Blank
MB17Z4	Ground Water	/G	S- (21) *	12 (NaOH, Zn Acetate) (1)	EPA-MW-21D	S: 1/15/2004	11:00	Field Duplicate

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: B17W0, MB17W0	Additional Sampler Signature(s):	Chain of Custody Seal Number:	
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment iced?	
S- = Sulfide, TOC = Tota	al Organic Carbon			

TR Number: 2-462971652-011504-0001

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Case No:	32512
DAS No:	

SDG No:

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Date Shipped: Carrier Name:	1/15/2004 FedEx	Citali of Castody Accord		Sampler Signature:		For Lab Use Only
		Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No:
Airbill:	842135658762	1		 		
Shipped to:	ped to: USEPA REGION II	ļ <u></u>				Unit Price:
Building 209 MS230 2890 Woodbridge Avenu Edison NJ 08837		2				Transfer To:
		3				Lab Contract No:
		4				Half Dates

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No.J PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MB17T8	Ground Water	/G	Alk (21)	1 (Not preserved) (1)	EPA-MW-21	S: 1/15/2004 11:00	B17T8	
MB17T9	Ground Water	/G	Alk (21)	15 (Not preserved) (1)	EPA-MW-22	S: 1/15/2004 9:30	B17T9	
MB17W0	Ground Water	/G	Alk (21)	207 (Not preserved), 208 (Not preserved), 209 (Not	EPA-MW-23	S: 1/15/2004 9:40	B17W0	
MB17W1	Ground Water	/G	Alk (21)	preserved) (3) 228 (Not preserved) (1)	EPA-MW-25	S: 1/15/2004 11:50	B17W1	
MB17W3	Ground Water	/G	Alk (21)	126 (Not preserved) (1)	EPA-MW-27	S: 1/15/2004 15:10	B17W3	
MB17X1	Ground Water	/G	AJk (21)	119 (Not preserved) (1)	ST-MW-02	S: 1/15/2004 13:00	B17X1	
MB17X2	Ground Water	/G	Alk (21)	200 (Not preserved) (1)	ST-MW-06	S: 1/15/2004 16:45	B17X2	
MB17X6	Ground Water	/G	AJk (21)	242 (Not preserved) (1)	ST-MW-14	S: 1/15/2004 15:45	B17X6	
MB17X8	Ground Water	/G	Alk (21)	235 (Not preserved) (1)	ST-MW-16	S: 1/15/2004 13:45	B17X8	
MB17Y6	Field QC	/G	Alk (21)	MB17Y6249 (Not preserved)	FB-03	S: 1/15/2004 6:30	B17Y6	

Shipment for Case Complete 7N	Sample(s) to be used for laboratory QC: MB17W0	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:		
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Shipment Iced?		
Alk ≃ Alkalinity						

TR Number: 2-462971652-011504-0002 PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

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Case No:	32512	
DAS No:		
SDG No:		ᆫ

							SDG NO.		
Date Shipped:	1/15/2004	Chain of Custody Record		Sampler Signature:	, ,		For Lab Use Only		
	Carrier Name: Alrbill:	FedEx	Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No:		
l	Shipped to:	842135658762 USEPA REGION II	1				Unit Price:		
l	Building 209 2890 Woodb Edison NJ 08	Building 209 MS230 2890 Woodbridge Avenue	2	-		_	Transfer To:		
l		Edison NJ 08837 (732) 906-6886	3				Lab Contract No:		
L			4				Unit Price:		

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRE SERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MB17Y7	Ground Water	/G	Alk (21)	259 (Not preserved) (1)	TB-03	S: 1/15/2004	B17Y7	
MB17Z4	Ground Water	/G	Alk (21)	8 (Not preserved) (1)	EPA-MW-21D	S: 1/15/2004 1	1:00 B17Z4	

Shipment for Case Complete?N MB17W0		Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:	
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = 0		Custody Seal Intact? Shipment iced?	
Alk = Alkalinity			<u> </u>		

TR Number:

LABORATORY CO

Case No: 32512 DAS No:

Region: Project Code:	2	Date Shipped: Carrier Name:	1/15/2004 FedEx	Chain of Custody Re	ecord	Sampler Signature:	
Account Code:	,	Airbill:		Relinquished By	(Date / Time)	Received By	(Date / Time)
CERCLIS ID:	NYD047650197	Shipped to:	USEPA REGION II	1			
Spill ID:	02LH		Building 209 MS230 2890 Woodbridge Avenue Edison NJ 08837 (732) 906-6886	<u> </u>			
Site Name/State:	Stanton Cleaners Groundwater Contaminati			2			
Project Leader:	JOHN HUISMAN			3			
Action:	Ground Wat		(732) 300-0680	<u> </u>			
Sampling Co:	Earth Tech, Inc.			4		_	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB17T8	Ground Water	/G	Alk (21)	1 (Not preserved) (1)	EPA-MW-21	S: 1/15/2004 11:00	B17T8	
MB17T9	Ground Water	/G	Alk (21)	15 (Not preserved) (1)	EPA-MW-22	S: 1/15/2004 9:30	B17T9	
MB17W0	Ground Water	/G	Alk (21)	207 (Not preserved), 208 (Not preserved), 209 (Not preserved) (3)	EPA-MW-23	S: 1/15/2004 9:40	B17W0	MS/MSD
MB17W1	Ground Water	/G	Alk (21)	228 (Not preserved) (1)	EPA-MW-25	S: 1/15/2004 11:50	B17W1	
MB17W3	Ground Water	/G	Alk (21)	126 (Not preserved) (1)	EPA-MW-27	S: 1/15/2004 15:10	B17W3	-
MB17X1	Ground Water	/G	Alk (21)	119 (Not preserved) (1)	ST-MW-02	S: 1/15/2004 13:00	B17X1	
MB17X2	Ground Water	/G	Alk (21)	200 (Not preserved) (1)	ST-MW-06	S: 1/15/2004 16:45	B17X2	
MB17X6	Ground Water	/G	Alk (21)	242 (Not preserved) (1)	ST-MW-14	S: 1/15/2004 15:45	B17X6	
MB17X8	Ground Water	/G	Alk (21)	235 (Not preserved) (1)	ST-MW-16	S: 1/15/2004 13:45	B17X8	
MB17Y6	Field QC	/G	Alk (21)	MB17Y6249 (Not preserved) (1)	FB-03	S: 1/15/2004 6:30	B17Y6	Rinsate
MB17Y7	Ground Water	/G	Alk (21)	259 (Not preserved) (1)	TB-03	S: 1/15/2004	B17Y7	Trip Blank

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MB17W0	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?
Alk = Alkalinity	_		

TR Number: 2-462971652-011504-0002

Case No:

32512

DAS No:

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Region: Project Code;	2			Date Shipped: 1/15/2 Carrier Name: FedEx	.00.	Chain of Custoc	ly Record		Sampler Signature:	
Account Code);					Relinquished By	(Date	/ Time)	Received By	(Date / Time)
CERCLIS ID:	NYD047650	197		Shipped to: USEPA REGION II		1		——————————————————————————————————————	_	
Spili ID: Site Name/Sta	02LH Ite: Stanton Cle	eaners Grour	ndwater Contaminati		2890 Woodbridge Avenue 2					
Project Leade	r: JOHN HUIS Ground Wa			Edison NJ 08837 (732) 906-6886		3				
Sampling Co:		-	_			4				
INORGANIC SAMPLE No.		CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottle	STATION LOCATION		LE COLLECT ATE/TIME	-	IGANIC IPLE No.	QC Type
MB17Z4	Ground Water	/G	Alk (21)	8 (Not preserved) (1)	EPA-MW-21D	S: 1/15/2004	11:00	B17Z4		Field Duplicate

Shi pment for Case Complete? N	Sample(s) to be used for laboratory QC: MB17W0	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?
Alk = Alkalinity	-		

TR Number: 2-462971652-011504-0002

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Case No: 32512	32512
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DAS	No:	

SDG No:

Date Shipped:	1/15/2004
Carrier Name:	FedEx

FedEx

Airbill: Shipped to: 842135658773

Ceimic Corporation 10 Dean Knauss Drive Narragansett RI 02882 (401) 782-8900

Chain of Custody Record		Sampler Signature:	For Lab Use Only		
Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No:	
1				Unit Price:	
2	•			Transfer To:	
3					

sfer To: Lab Contract No:

Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
B17T9	Ground Water	/G	VOA (21)	16 (HCL), 17 (HCL), 18 (HCL) (3)	EPA-MW-22	S: 1/15/2004 9:3	0	
B17W0	Ground Water	/G	VOA (21)	210 (HCL), 211 (HCL), 212 (HCL), 213 (HCL), 214 (HCL), 215 (HCL), 216 (HCL), 217 (HCL), 218 (HCL) (9)	EPA-MW-23	S: 1/15/2004 9:4	0	
B17W1	Ground Water	/G	VOA (21)	229 (HCL), 230 (HCL), 231 (HCL) (3)	EPA-MW-25	S: 1/15/2004 11:	50	
B17W3	Ground Water	/G	VOA (21)	127 (HCL), 128 (HCL), 129 (HCL) (3)	EPA-MW-27	S: 1/15/2004 15:	10	
B17X1	Ground Water	/G	VOA (21)	120 (HCL), 121 (HCL), 122 (HCL) (3)	ST-MW-02	S: 1/15/2004 13:0	00	
B17X2	Ground Water	/G	VOA (21)	201 (HCL), 202 (HCL), 203 (HCL) (3)	ST-MW-06	S: 1/15/2004 16:	45	
B17X6	Ground Water	/G	VOA (21)	243 (HCL), 244 (HCL), 245 (HCL) (3)	ST-MW-14	S: 1/15/2004 15:	45	
B17X8	Ground Water	/G	VOA (21)	236 (HCL), 237 (HCL), 238 (HCL) (3)	ST-MW-16	S: 1/15/2004 13:	45	
B17Y6	Field QC	/G	VOA (21)	B17T6252 (HCL), B17Y6250 (HCL), B17Y6251 (HCL) (3)	FB-03	S: 1/15/2004 6:3	0	
B17Y7	Ground Water	/G	VOA (21)	260 (HCL), 261 (HCL), 262 (HCL) (3)	TB-03	S: 1/15/2004		

Complete?N	Sample(s) to be used for laboratory QC: B17W0	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Numb	per:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?	Shipment Iced?
VOA = CLP TCL Volatile			<u> </u>		

TR Number: 2-462971652-011504-0003

⊕ EPA
Date Shipped:

Case No:	32512	
DAS No:		
SDG No:		L

Date Shipped:	1/15/2004		Chain of Custoo	ay izewia i	Sampler Signature:	· ·	For Lab Use Only	
Carrier Name:	FedEx		Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No:	
Airbill: Shipped to:	842135658773	_	1		<u> </u>		Unit Price:	
onipped to:	Ceimic Corporation 10 Dean Knauss E	Orive	2				Transfer To:	
	Narragansett RI 02 (401) 782-8900	2002	3				Lab Contract No:	
			4				Unit Price:	
ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No / PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLI DATE/TIME	11101107111	·-
B1774	Ground Water	/G	V/OA (21)	10 (HCL) 11 (HCL) 9 (HC	TI) EDA-MW-21D	S: 1/15/2004	11:00	

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: B17W0	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Num	ber:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?	Shipment iced?
VOA = CLP TCL Volatile	es			-	

TR Number: 2-462971652-011504-0003

LABORATORY COPY

Case No:

32512

DAS No:

Region:	2	Date Shipped:	1/15/2004	Chain of Custody	Record	Sampler	
Project Code:		Carrier Name:	FedEx			Signature:	
Account Code:	•	Airbill:	842135658773	Relinquished By	(Date / Time)	Received By	(Date / Time)
CERCLIS ID:	NYD047650197	Shipped to:	Ceimic Corporation	1			
Spill ID:	02LH	Ompped to:	10 Dean Knauss Drive	<u> </u>			
Site Name/State:	Stanton Cleaners Groundwater Contaminati		Narragansett RI 02882	2			
Project Leader:	JOHN HUISMAN	ľ	(401) 782-8900	3			
Action:	Ground Wat			<u> </u>	<u> </u>		
Sampling Co:	Earth Tech, Inc.			4			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	СС Туре
B17T9	Ground Water	/G .	VOA (21)	16 (HCL), 17 (HCL), 18 (HCL) (3)	EPA-MW-22	S: 1/15/2004 9:30		
B17W0	Ground Water	/G	VOA (21)	210 (HCL), 211 (HCL), 212 (HCL), 213 (HCL), 214 (HCL), 215 (HCL), 216 (HCL), 217 (HCL), 218 (HCL) (9)	EPA-MW-23	S: 1/15/2004 9:40		MS/MSD
B17W1	Ground Water	/G	VOA (21)	229 (HCL), 230 (HCL), 231 (HCL) (3)	EPA-MW-25	S: 1/15/2004 11:50		
B17W3	Ground Water	/G	VOA (21)	127 (HCL), 128 (HCL), 129 (HCL) (3)	EPA-MW-27	S: 1/15/2004 15:10		
B17X1	Ground Water	/G	VOA (21)	120 (HCL), 121 (HCL), 122 (HCL) (3)	ST-MW-02	S: 1/15/2004 13:00		-
B17X2	Ground Water	/G	VOA (21)	201 (HCL), 202 (HCL), 203 (HCL) (3)	ST-MW-06	S: 1/15/2004 16:45		~
B17X6	Ground Water	/G	VOA (21)	243 (HCL), 244 (HCL), 245 (HCL) (3)	ST-MW-14	S: 1/15/2004 15:45		-
B17X8	Ground Water	/G	VOA (21)	236 (HCL), 237 (HCL), 238 (HCL) (3)	ST-MW-16	S: 1/15/2004 13:45		-
B17Y6	Field QC	/G	VOA (21)	B17T6252 (HCL), B17Y6250 (HCL), B17Y6251 (HCL) (3)	FB-03	S: 1/15/2004 6:30		Rinsate
B17Y7	Ground Water	/G	VOA (21)	260 (HCL), 261 (HCL), 262 (HCL) (3)	TB-03	S: 1/15/2004		Trip Blank

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: B17W0	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?
VOA = CLP TCL Volatile	es		

TR Number: 2-462971652-011504-0003 REGION CO

(3)

Case No:

32512

DAS No:

Region: Project Code:	2			Date Shipped:	1/15/2004 FedEx		Chai	n of Custody	Record		Sampler Signature:	
Account Code:	1			Airbili:	84213565877	3	Relln	quished By	(Date / T	ime)	Received B	y (Date / Time)
CERCLIS ID:	NYD047650	197	•	Shipped to:	Ceimic Corpor	ration	1	-		_		
Spill ID:	02LH	_			10 Dean Knau Narragansett i		2				 	
Site Name/State	- Otaliton Sic		ndwater Contaminati		(401) 782-890		<u> </u>					
Project Leader:	: JOHN HUIS Ground Wa	• • • • • • • • • • • • • • • • • • • •			(3					
Sampling Co:	Earth Tech	•					4					
ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG PRESERVAT		STATION LOCATION			COLLECT E/TIME		RGANIC PLE No.	QC Type
B17Z4	Ground Water	/G	VOA (21)	10 (HCL), 11 (H	HCL), 9 (HCL)	EPA-MW-21	D	S: 1/15/2004	11:00			Field Duplicate

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
	B17W0		
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment iced?
VOA = CLP TCL Volatile	es		

TR Number:

2-462971652-011504-0003

REGION CO

15130 B South Keeler

Olathe, Kansas 66062 Phone (913) 829-0101 Fax (913) 829-1181

Page / of A

Project Name: Station LIRA Growdwater Sompling Sampler's Signature:_ Project Number:_ Purchase Order Number: Project Due Date:_ Project Comments: Phone #: (5/6) 352-4/33 City, State, Zip: Gfedt Neck, NY Address: 110 Cultumil Kour Company Name: Eurth Tech, Inc. Client Contact Name: John Huisthan Fax #: (

Analyses/Method to be Performed (Check all that apply)

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By elgraing the request (chain of custody) you are ordering work from Analytical Management Laboratories, inc. which constitutes the acceptance of the terms and conditions on the back of this form.

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Anajdosi Maragamant Lab

Olathe, Kansas 66062 Phone (913) 829-0101 15130 B South Keeler Fax (913) 829-1181

Page 2 of 2 Chain of Custody Record / Request for Analysis

Project Name: Stenton LTRA Commeter Smy ling

Project Number: 76536 . 04,03,0/ Purchase Order Number:

Project Due Date: Project Comments:

1021 VA

City, State, Zip: Litud Nuck,

Phone #: (516) 358 -4133

Fax #

Address: 110 Culkethill Road

Company Name: Earth Tech . Inc.

Client Contact Name: John Huisman

Sampler's Signature:

Analyses/Method to be Performed (Check all that apply)

11me N 1/00 (1/04/5	 		Date/Time:	<u> </u>		j	J	र्भ	_4_	à à	Ilister INS Received By:		<u> ज्</u> री	7	P			Date/Time:	<u> </u>			The second	*	S Relinquished By: Relinquished By:
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Method #> Let total number of bottles for each preservative type.		enalysis of the sample. Example: high concentration Committeents:	Mellina, Ellina,					980d			BETTM		HATT Diesell			Unpreserved		HINO			Matrix	Time	Date	Sample Description
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By signing the request (chain of custody) you are ordering work from Analytical Management Laboratories, inc. which constitutes the acceptance of the terms and conditions on the back of this form.

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8	EPA	
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USEPA Contract Laboratory Program Generic Chain of Custody

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Reference Case 3	2512
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Client No: SDG No:

Unit Price:

L

 Date Shipped:
 1/19/2004

 Carrier Name:
 FedEx

 Airbill:
 8421356587

842135658707

Shipped to: USEPA REGION II
Building 209 MS230
2890 Woodbridge Avenue

Edison NJ 08837 (732) 906-6886

Chain of Custody	Record	Sampler Signature:	
Relinquished By	(Date / Time)	Received By	(Date / Time)
1			
2			
3	_		

For Lab Use Onl	y	
Lab Contract No:		
Unit Price:		
'		

Transfer To:

Lab Contract No:

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRE SERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
B17W2	Ground Water	/G	TOC (21)	27 (H2SO4), 28 (H2SO4) (2)	EPA-MW-26	S: 1/16/2004 9:00	
B17X5	Ground Water	/G	TOC (21)	13 (H2SO4), 14 (H2SO4) (2)	ST-MW-13	S: 1/16/2004 11:20	
B17X7	Ground Water	/G	TOC (21)	6 (H2SO4), 7 (H2SO4) (2)	ST-MW-15	S: 1/16/2004 9:15	
B17Y0	Ground Water	/G	TOC (21)	20 (H2SO4), 21 (H2SO4) (2)	ST-MW-18	S: 1/16/2004 12:20	
MB17W2	Ground Water	/G	S- (21)	26 (NaOH, Zn Acetate) (1)	EPA-MW-26	S: 1/16/2004 9:00	
MB17X5	Ground Water	/G	S- (21)	12 (NaOH, Zn Acetate) (1)	ST-MW-13	S: 1/16/2004 11:20	
MB17X7	Ground Water	/G	S- (21)	5 (NaOH, Zn Acetate) (1)	ST-MW-15	S: 1/16/2004 9:15	
MB17Y0	Ground Water	/G	S- (21)	19 (NaOH, Zn Acetate) (1)	ST-MW-18	S: 1/16/2004 12:20	

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Shipment iced?
S- = Sulfide, TOC = Tota	l Organic Carbon			

TR Number: 2-462971652-011604-0001

USEPA Contract Laboratory Program Generic Chain of Custody

Reference Case: 32512

Client No:

_							
Region: Project Code;	2	Date Shipped:	1713/2004	Chain of Custody I	Record	Sampler Signature:	
Project Code:		Carrier Name:	FedEx				
Account Code:	•	Airbill:	842135658707	Relinquished By	(Date / Time)	Received By	(Date / Time)
CERCLIS ID:	NYD047650197	Shipped to:	USEPA REGION II	1			
Spill ID:	02LH		Building 209 MS230			 	
Site Name/State:	Stanton Cleaners Groundwater Contaminati		2890 Woodbridge Avenue	2			
Project Leader:	JOHN HUISMAN		Edison NJ 08837	3			
Action:	Ground Wat	[(732) 906-6886			 	
Sampling Co:	Earth Tech. Inc.			4			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION		COLLECT E/TIME	QC Type
B17W2	Ground Water	/G	TOC (21)	27 (H2SO4), 28 (H2SO4) (2)	EPA-MW-26	S: 1/16/2004	9:00	-
B17X5	Ground Water	/G	TOC (21)	13 (H2SO4), 14 (H2SO4) (2)	ST-MW-13	S: 1/16/2004	11:20	-
B17X7	Ground Water	/G	TOC (21) '	6 (H2SO4), 7 (H2SO4) (2)	ST-MW-15	S: 1/16/2004	9:15	-
B17Y0	Ground Water	/G	TOC (21)	20 (H2SO4), 21 (H2SO4) (2)	ST-MW-18	S: 1/16/2004	12:20	-
MB17W2	Ground Water	/G	S- (21)	26 (NaOH, Zn Acetate) (1)	EPA-MW-26	S: 1/16/2004	9:00	
MB17X5	Ground Water	/G	S- (21)	12 (NaOH, Zn Acetate) (1)	ST-MW-13	S: 1/16/2004	11:20	-
MB17X7	Ground Water	/G	S- (21)	5 (NaOH, Zn Acetate) (1)	ST-MW-15	S: 1/16/2004	9:15	-
MB17Y0	Ground Water	/G	S- (21)	19 (NaOH, Zn Acetate) (1)	ST-MW-18	S: 1/16/2004	12:20	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment iced?
S- = Sulfide, TOC = Tota	al Organic Carbon		

TR Number: 2-462971652-011604-0001



ase No: 32512

DAS No:

SDG No:

	Date Shipped:	1/19/2004	Chain of Custody Record		Sampler Signature:		For Lab Use Only					
	Carrier Name.	FedEx	Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No:					
	Airbii:	842135658707										
	Shipped to:	USEPA REGION II	1				Unit Price:					
ı	Jpp. a. a	Building 209 MS230	Building 209 MS230	Building 209 MS230	Building 209 MS230		2				Transfer To:	
		Edison NJ 08837	3				Lab Contract No:					
		(732) 906-6886	4				Unit Price:					

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLI DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MB17W2	Ground Water	/G	Alk (21)	22 (Not preserved) (1)	EPA-MW-26	S: 1/16/2004	9:00	B17W2	
MB17X5	Ground Water	/G	Alk (21)	8 (Not preserved) (1)	ST-MW-13	S: 1/16/2004	11:20	B17X5	
MB17X7	Ground Water	/G	Alk (21)	1 (Not preserved) (1)	ST-MW-15	S: 1/16/2004	9:15	B17X7	
MB17Y0	Ground Water	/G	Alk (21)	15 (Not preserved) (1)	ST-MW-18	S: 1/16/2004	12:20	B17Y0	

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



Case No: 32512 DAS No:

Region: Project Code:	Di Ci	Chain of Custody Re	cord	Sampler Signature:			
Account Code:		Airbili:	FedEx 842135658707	Relinquished By	(Date / Time)	Received By	(Date / Time)
CERCLIS ID:	NYD047650197	Shipped to:	USEPA REGION II	1			
Spill ID:	02LH	pps= to:	Building 209 MS230				
Site Name/State:	Stanton Cleaners Groundwater Contaminati		2890 Woodbridge Avenue	2			
Project Leader:	JOHN HUISMAN		Edison NJ 08837 (732) 906-6886	3			
Action:	Ground Wat	1	(102) 300 0000			<u> </u>	
Sampling Co:	Earth Tech, Inc.			4			

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No.J PRESERVATIVE/ Bottles	STATION LOCATION		COLLECT E/TIME	ORGANIC SAMPLE No.	QC Type	
MB17W2	Ground Water	/G	Alk (21)	22 (Not preserved) (1)	EPA-MW-26	S: 1/16/2004	9:00	B17W2	_	
MB17X5	Ground Water	/G	Alk (21)	8 (Not preserved) (1)	ST-MW-13	S: 1/16/2004	11:20	B17X5	-	
MB17X7	Ground Water	/G	Alk (21)	1 (Not preserved) (1)	ST-MW-15	S: 1/16/2004	9:15	B17X7		
MB17Y0	Ground Water	/G	Alk (21)	15 (Not preserved) (1)	ST-MW-18	S: 1/16/2004	12:20	B17Y0		

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment iced?
Alk = Alkalinity			

TR Number:

2-462971652-011604-0002

9	EPA
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Case No:	32512	
DAS No:		
SDC No.		L.

						050 No.		
Date Shipped: 1/16/2004				Sampler Signature:	1 · · · · · · · · · · · · · · · · · · ·		For Lab Use Only	
Carrier Name:	FedEx	Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No:		
Shipped to: Ceimic Co	842135658730	1				Unit Price:		
	Ceimic Corporation 10 Dean Knauss Drive	2	_	†		Transfer To:		
	Narragansett RI 02882 (401) 782-8900	3				Lab Contract No:		
		4				Unit Price:		

							1100.	
ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No.J PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
B17W2	Ground Water	/G	VOA (21)	23 (HCL), 24 (HCL), 25 (HCL) (3)	EPA-MW-26	S: 1/16/2004 9:00)	
B17X5	Ground Water	/G	VOA (21)	10 (HCL), 11 (HCL), 9 (HCL) (3)	ST-MW-13	S: 1/16/2004 11:2	0	
B17X7	Ground Water	/G	VOA (21)	2 (HCL), 3 (HCL), 4 (HCL) (3)	ST-MW-15	S: 1/16/2004 9:1	5	
B17Y0	Ground Water	/G	VOA (21)	16 (HCL), 17 (HCL), 18 (HCL) (3)	ST-MW-18	S: 1/16/2004 12:2	0	
B17Y8	Field QC	/G	VOA (21)	29 (HCL), 30 (HCL), 31 (HCL) (3)	FB-04	S: 1/16/2004 6:30)	
B17Y9	Ground Water	/G	VOA (21)	32 (HCL), 33 (HCL), 34 (HCL) (3)	TB-04	S: 1/16/2004		

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



Case No: 32512 DAS No:

Region:	2	Date Shipped:	1/16/2004	Chain of Custody Re	cord	Sampler	
Project Code:		Carrier Name:	FedEx			Signature:	
Account Code:	•	Airbill:	842135658730	Relinquished By	(Date / Time)	Received By	(Date / Time)
CERCLIS ID:	NYD047650197	Shipped to:	Ceimic Corporation	1	-		
Spill ID:	02LH	,	10 Dean Knauss Drive				
Site Name/State:	Stanton Cleaners Groundwater Contaminati		Narragansett RI 02882	2			
Project Leader:	JOHN HUISMAN		(401) 782-8900	3			
Action:	Ground Wat						
Sampling Co:	Earth Tech, Inc.			4			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No.J PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
B17W2	Ground Water	/G	VOA (21)	23 (HCL), 24 (HCL), 25 (HCL) (3)	EPA-MW-26	S: 1/16/2004 9:00		
B17X5	Ground Water	/G	VOA (21)	10 (HCL), 11 (HCL), 9 (HCL) (3)	ST-MW-13	S: 1/16/2004 11:20		
B17X7	Ground Water	/G	VOA (21)	2 (HCL), 3 (HCL), 4 (HCL) (3)	ST-MW-15	S: 1/16/2004 9:15		-
B17Y0	Ground Water	/G	VOA (21)	16 (HCL), 17 (HCL), 18 (HCL) (3)	ST-MW-18	S: 1/16/2004 12:20		
B17Y8	Field QC	/G	VOA (21)	29 (HCL), 30 (HCL), 31 (HCL) (3)	FB-04	S: 1/16/2004 6:30		Rinsate
B17Y9	Ground Water	IG	VOA (21)	32 (HCL), 33 (HCL), 34 (HCL) (3)	TB-04	S: 1/16/2004		Trip Blank

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment iced?
VOA = CLP TCL Volatile	es .		

TR Number: 2-462971652-011604-0003 REGION CO

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Olathe, Kansas 66062 15130 B South Keeler

Phone (913) 829-0101

Fax (913) 829-1181

Analytical Menagement Laboratories, inc.

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Page of Custody Record / Request for Analysis

Project Name: Startes Changes LTRA Grandwater Project Number: 70536, 04.03, 0) Client Contact Name: John Huisman

Company Name: Earth Tech, Inc. Address: 110 Cutterth: 11 And City, State, Zip: Great Neck, NY Phone #: (5/6) 4/66-8637

Sampler's Signature:___ Purchase Order Number: Project Due Date: Project Comments:

Analyses/Method to be Performed (Check all that apply)

Please include any information that may be useful in the Example: high concentration emalysis of the semple. Comments 8/7X7 B17W2 Date/Time: Date/Time: P BNV[®] (SAOC[®]) Received By: Received By: (ACCe) Bem XEX TPH Gasoline Method # ---> Preservative List total number of botiles for each preservative type. 1/16/04 7.C beviesendni **'05**'H Date/Time: Date/Time: HOS FONH HCI 3 ory Project Number: Matrix ßΣ 1330 0060 1/16/04/09/15 Tine 1/16/04 1116/04 F0/9// c v F Relinquished By: o D Relinquished By: Sample Description EPA-MW-26 ST-MM-18 ST-MM-15 ST-MM-13 Lab ID

By signing the request (chain of custody) you are ordering work from Analytical Management Laboratories, inc. which constitutes the acceptance of the terms and conditions on the back of this form.

Delivery Method

D. Delivery Method

D. Conference

APPENDIX C FEDEX AIRBILLS

Fedex. USA Airbill Traders 842135463831	Sender's Copy
1 From Press price and green Art Sender's FedEx Account Number 237-4259-8	4a Express Package Service Opening Committee of 190 libs. FedEx Priority Overnight Next business whencon Opening Committee or 190 libs. Opening Committee
Sender's John Huisman Phone 516 1466-8637	FedEx 2Day Second Journal of the Transport of the Transpo
company Earth Tech, Inc.	4b Express Freight Service Packages over 150 Iba. Delivery commissed may be lear in some area.
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Try online shipping at fedex.com	[†] Our liebility is limited to \$100 unless you declary a higher value. See back for details.
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Appendix B Laboratory Data Packages

RECORD OF COMMUNICATION

TO:	SHEWEN BIAN
FROM:	Region 2, ESAT/RSCC
DATE:	
MESSAGE:	QUALITY ASSURED DATA ==================================
	TON CLEANERS CARE # 32 5/2
	LIC 39 WATER TCL-VOA
REPLY BY:	
_	
	
SIGNATURE:	DATE:
DATE RECEIVED	BY RSCC:

RECORD OF COMMUNICATION

TO:	SHEWEN BIAN
FROM:	CONSTANTIN STANCA Region 2, ESAT/RSCC
DATE:	
='===== MESSAGE:	QUALITY ASSURED DATA ==================================
NATZ	TON CLEANERS CARE # 32512
CHEIN	MIC 39 WATER TCL-VOA
,,,,,,	
====== REPLY BY:	
	·····
-	
SIGNATURE:	DATE:
DATE RECEIVED	D BY RSCC:

RECORD OF COMMUNICATION

REGIONAL SAMPLE CONTROL CENTER

	REGIONAL SAMPLE	CONTROL CENTRA	K
	ackage for Quality Assurance Waste Support Section	Review	M./ 1 , all 04
Attached is the follo	wing ORGANIC Data I	Package to be reviewed j	for Quality Assurance
SITE: Stanton Ch	leaners GW	CASE #: 325	5/2
SAMPLER: USA	CE	SDG#: B17T	3,731778
PROJ. CODE: FE	SITE SPILL#: LH	#SAMPLES	MATRIX
LAB: CEIMIC	<u> </u>	39	Water
TURN-AROUND-TIME	 • .		
CERCLIS ID #: NY	DØ47650197	FRACTION: TCL	-VOA
Contaminant(s) of Con-	ern (If known)		
	REGION II RSCC DA	TA TRANSFER LOG	;
Relinquish	ned By	Receiv	ed By
Signature	Date/Time	Signature	Date/Time
Adly Michael	3/4/04		ce 3/04/04
O. Stance	3/10/64	CH 317	3/10/04
61773 CAL-	<i>)</i> .		
C: Stance		And langue	L 6178 3/10/04
And Paragran 6	2178 3/15/04		
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1 11 1			
Color L. (3/15/04	Hannif she	eith 3/15/04

Functional Guidelines for Evaluating Organic Analysis

CASE No.: 32512

SDG No.: B17T3

LABORATORY: CEIMIC

SITE: STANTON CLEANERS GW

DATA ASSESSMENT

The current SOP HW-6 (Revision 12) March 2001, USEPA Region II Data Validation SOP for Statement of Work OLMO4.3. for evaluating organic data have been applied.

All data are valid and acceptable except those Analytes rejected "R" (unusable). Due to the detection of QC problems, some analytes may have the "J" (estimated), "N" (presumptive evidence for the presence of the material, "U" (non-detect) or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's

Signature: Charlene M. Alaimo

Date: March 12, 2004

Verified By: Janus Shell Date: 03/16/2004

SDG#B17T3

1. HOLDING TIME:

No problems found for this qualification.

2. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

No problems found for this qualification.

3. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

No action is taken based on MS/MSD criteria.

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common contaminants), the analytes are qualified as non-detects, "U". The following analytes in the sample shown were qualified with "U" for these reasons:

A) Method blank contamination:

See Trip blank criteria

B) Field or rinse blank contamination:

The following volatile samples are associated with a contaminated field blank. The following volatile samples have analyte concentrations reported above the CRQL and less than or equal to five times (5X) the associated field blank concentration.

Hits are qualified "U" and non-detects are not flagged.

Tetrachloroethene B17X9, B17Y1

The following volatile samples are associated with a contaminated field blank. The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to five times (5X) the associated field blank concentration. Reported sample concentrations have been elevated

to the CRQL.

Hits are qualified "U" and non-detects are not flagged.

Tetrachloroethene B17X3

C) Trip blank contamination for VOA aqueous samples:

The following volatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the associated trip blank concentration.

Hits are qualified "U" and non-detects are not flagged.

Methylene Chloride

B17T3, B17T5, B17T6, B17T7, B17W4, B17W5, B17W6, B17W7, B17W7MS, B17W7MSD, B17W9, B17X0, B17X3, B17Z5

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated trip blank concentration. Reported sample concentrations have been elevated to the CRQL.

Hits are qualified "U" and non-detects are not flagged.

Methylene Chloride B17T3DL, B17T4, B17W6DL, B17W8, B17X4, B17X9, B17Y1, B17Z5DL

D) Storage Blank associated with VOA samples only

See Trip blank criteria

E) Tics "R" rejected

The following samples had concentrations less than five times (5x) the results in the most contaminated associated blank.

Unknown RT(s) B17T5, B17T7, B17W5, B17W6, B17W6DL, B17W7, B17X0, B17X3

The following TICs values been rejected.

Unknown Siloxane(s) B17W5, B17W7, B17W9, B17X0, B17X3, B17Y4

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is (BFB) Bromofluorobenzene and for semi-volatiles Decafluorotriphenyl-phosphine (DFTPP).

If the mass calibration is in error, all associated data will be classified as unusable "R".

No problems found for this qualification.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for the Target Compound List (TCL) must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound will be rejected "R".

DC-9 The following volatile samples are associated with a continuing calibration relative response factor (RRF50) outside primary criteria.

Hits are flagged "J" and non-detects are qualified "R".

1,2-Dibromo-3-chloropropane
B17T3DL, B17T4, B17W6DL, B17W8, B17X4, B17X9, B17Y1, B17Y2, B17Y4, B17Z5DL, VBLKOB

B)Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be < 30% and %D must be < 25%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detects data may be qualified "R".

For the PEST/PCB fraction, if %RSD exceeds 20% for all analytes except for the two surrogates (which must not exceed 30% RSD), qualify all associated positive results "J" and non-detects "UJ".

The following analytes in the sample shown were qualified for %RSD and %D:

DC-8: The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Dichlorodifluoromethane, Chloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Methylene Chloride, trans-1,2-Dichloroethane

B17T3, B17T6, B17T7, B17W4, B17W5, B17W6, B17W7, B17W9, B17X0, B17X3, B17Y3, B17Z5, VBLKOA

Chloromethane, Vinyl Chloride

B17T3, B17T3DL, B17T4, B17T6, B17T7, B17W4, B17W5, B17W6, B17W6DL, B17W7, B17W8, B17W9, B17X0, B17X3, B17X4, B17X9, B17Y1, B17Y2, B17Y3, B17Y4, B17Z5, B17Z5DL, VBLKOA, VBLKOB

Acetone, 2-Hexanone

B17T3, B17T5, B17T6, B17T7, B17W4, B17W5, B17W6, B17W7, B17W7MS, B17W7MSD, B17W9, B17X0, B17X3, B17Y3, B17Z5, VBLKOA, VBLKOC, VHBLK01

2-Butanone

B17T3, B17T3DL, B17T4, B17T5, B17T6, B17T7, B17W4, B17W5, B17W6, B17W6DL, B17W7, B17W7MS, B17W7MSD, B17W8, B17W9, B17X0, B17X3, B17X4, B17X9, B17Y1, B17Y2, B17Y3, B17Y4, B17Z5, B17Z5DL, VBLKOA, VBLKOB, VBLKOC, VHBLKO1

8. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than ±30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, the reviewer will use professional judgement to determine either partial or total rejection of the data for that sample fraction.

No problems found for this qualification.

9. COMPOUND IDENTIFICATION:

A) Volatile and Semi-Volatile Fractions:

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within \pm 0.06 RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m'e intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

No problems found for this qualification.

B) Pesticide Fraction:

The retention times of reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10ng/ml in the final sample extract.

No problems found for this qualification.

10. CONTRACT PROBLEMS NON-COMPLIANCE:

No problems found for this qualification.

11. FIELD DOCUMENTATION:

Sampling time and date were missing from the Organic Traffic Report and Chain of Custody Record for samples B17Y2 & B17Y3. This information was determined from the sampling trip report and manual entered by the Validator.

12. OTHER PROBLEMS:

No problems found for this qualification.

13. This package contains reextractions, reanalyses or dilutions. Upon reviewing the QA results, the following Form 1(s) are identified not to be used.

B17T3DL, B17W6DL, B17Z5DL

SDG Narrative

The enclosed data package is in response to USEPA, Region II, Case No.32512, and SDG No. B17T3, Contract No. 68-W-03-018. Under this SDG there are 22 VOA samples received at Ceimic Corporation on January 14 and 16, 2004.

EPA ID:	CEIMIC ID:	Analysis
B17T3	040018-01	VOA
B17T4	040018-02	VOA
B17T5	040018-03	VOA
B17T6	040018-04	VOA
B17T7	040018-05	VOA
B17W4	040018-06	VOA
B17W6	040018-07	VOA
B17Y2	040018-08	VOA
B17Y3	040018-09	VOA
B17Z5	040018-10	VOA
B17W8	040018-11	VOA
B17W5	040018-12	VOA
B17W7	040018-13	VOA
B17W7MS	040018-13MS	VOA
B17W7MSD	040018-13MSD	VOA
B17W9	040018-14	VOA
B17X0	040018-15	VOA
B17X3	040018-16	VOA
B17X4	040018-17	VOA
B17X9	040018-18	VOA
B17Y1	040018-19	VOA
B17Y4	040018-20	VOA

(1) Sample Receipt

Cooler Temperatures upon receipt were 2°C and 4°C.

(2) Instrumentation and Column Identification

The following instruments were used for the analyses:

GC/ECD Analysis

A. VOA

MS15 HP5972 GC/MS, 30m, 0.25mm ID, 1.4 um, DB-624 capillary column. OI trap #10 (8cm Tenax, 8cm silica gel, 8cm carbon molecular sieve)

(3) Sample Information

An "x" qualifier is flagged by Target Thru-put software whenever the data is manually edited. The letters "M" for GC/MS and "FF" for GC are used on the raw data of the quantitation report whenever a manual integration is performed. Manual integrations are performed on GC/MS and GC standards and samples when computer generated integration picks up only a portion of the chromatographic peak, due to software limitations. When manual integrations are required, these integrations are performed using sound defensible professional judgment, in order to report accurate data. Each manual integration is signed and dated, and reviewed by both the lab supervisor and the GC/MS Interpretation Specialist for GC/MS or the Organic Lab Manager for Pest/PCB.

A. VOA Fraction (Method CLP SOW OLM04.3)

The pHs of the water samples were:

Client ID:	Ceimic ID:	pH:
B17T3	040018-01	1
B17T4	040018-02	1
B17T5	040018-03	1
B17T6	040018-04	1
B17T7	040018-05	1
B17W4	040018-06	1
B17W6	040018-07	1
B17Y2	040018-08	1
B17Y3	040018-09	1
B17Z5	040018-10	1
B17W8	040018-11	1
B17W5	040018-12	1
B17W7	040018-13	1
B17W9	040018-14	1
B17X0	040018-15	1
B17X3	040018-16	1
B17X4	040018-17	1
B17X9	040018-18	1
B17Y1	040018-19	1
B17Y4	040018-20	1

The following samples were reanalyzed at a dilution:

Client ID:	Ceimic ID:	<u>Dilution:</u>
B17T3	040018-01	10:1
B17W6	040018-07	5:1
B17Z5	040018-10	2:1

Deviations from the SOW

None other than specified above.

End of SDG Narrative

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Ines Bauer

Laboratory Manager

Date

ALKANE NARRATIVE REPORT Report date: 01/29/2004 SDG: B17T3

Client Sample ID: B17W6 Compound	Lab Sample	ID: 040 RT	0018-07 Est. Conc.	File II	O: OE129
Straight-Chain Alkane Cyclic Alkane Cyclic Alkane Cyclic Alkane Cyclic Alkane Branched Alkane		2.28 3.52 3.70 3.79 4.74	270 50 31 62 38 38	J J J	
. Client Sample ID: B17Z5 Compound	Lab Sample	ID: 040 RT	018-10 Est. Conc.	File II Q	O: OE132
Cyclic Alkane Branched Alkane Straight-Chain Alkane		3.79 5.33	34 30 700	J J	
Client Sample ID: B17W6DL Compound	Lab Sample	ID: 040 RT	018-07DL Est. Conc.	File Q	ID: OE147
Straight-Chain Alkane Branched Alkane Straight-Chain Alkane		2.26	220 170 460	JD JD	
Client Sample ID: B17Z5DL Compound	Lab Sample	ID: 040 RT	018-10DL Est. Conc.	File Q	ID: OE148
Branched Alkane		2.91	120	JD	

2. TRAFFIC REPORTS

SAMPLE DELIVERY GROUP (SDG) TRAFFIC REPORT (TR) COVERSHEET

RECEIVED FEB 0 4 2004

Lab Name:	Ceimic C	Corporation	Lab Code:	CEIMIC	HAZ. WASTE SUPPORT SEC.
Case No.:	32512	_	Bid Lot:	G	
Contract No:	68-W-03-	-018	Full Sampl	le Analysis Price:	· · · · · · · · · · · · · · · · · · ·
First Sample (Lowest EPA Sam shipment of samp	nple Number	•		Sample Receipt Date:	1/14/2004
Last Sample i (Highest EPA San shipment of samp	mple Number			Sample Receipt Date:	1/16/2004
EPA Sample N	Numbers in	the SDG (listed in	alphanumeric	order by date received)	
1.	B17T3		11.	. B17Z5	
2.	B17T4		12.	. B17W5	
3.	B17T5		13.	B17W7	
4.	B17T6		14.	B17W9	
5.	B17T7		15.	B17X0	
6.	B17W4		16.	B17X3	
7.	B17W6		17.	B17X4	
8.	B17W8		18.	B17X9	
9.	B17Y2		19.	B17Y1	
10.	B17Y3		20.	B17Y4	
		num of 20 field san			
Attach Traffic		this form in alpha		by date received.	

Signature Date

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17T3

Contract: 68-W-03-018 Lab Name: CEIMIC CORP

SDG No.: B17T3 Lab Code: CEIMIC Case No.: 32512 SAS No.:

Lab Sample ID: 040018-01 Matrix: (soil/water) WATER

Lab File ID: OE123 Sample wt/vol: 5.000 (g/mL) ML

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. _____ Date Analyzed: 01/19/04

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

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) <u>UG/L</u> Q

75 71 0	Disable and floorest bloom	10	T T T
75-71-8	Dichlorodifluoromethane	10	n J
74-87-3	Chloromethane	10	UJ
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	UJ
75-69-4	Trichlorofluoromethane	10	U
75 - 35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	UJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	Ü
75-09-2		23	PUT
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	8	J
78-93-3	2-Butanone	10	U T
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	Ū
56-23-5	Carbon Tetrachloride	10	Ū
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17T3

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

SDG No.: B17T3

Lab Code: CEIMIC Case No.: 32512 SAS No.:

Matrix: (soil/water) WATER

Lab Sample ID: 040018-01

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

Lab File ID: OE123

Level: (low/med) LOW

Date Received: 01/14/04

% Moisture: not dec.

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (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

		
		J
	10	Ū
	10	Ū
	10	U
cis-1,3-Dichloropropene	10	<u> </u>
4-Methyl-2-Pentanone	10	U
Toluene	10	Ū
trans-1,3-Dichloropropene	10	Ū
1,1,2-Trichloroethane	10	Ū
Tetrachloroethene	1200 980	P
2-Hexanone	10	U
Dibromochloromethane	10	U
1,2-Dibromoethane	10	U
Chlorobenzene	10	U
Ethylbenzene	1.0	U
Xylene (Total)	10	Ū
	10	Ū
Bromoform	10	Ū
Isopropylbenzene	10	U
	10	Ū
1,3-Dichlorobenzene	10	Ū
1,4-Dichlorobenzene	10	Ū
1,2-Dichlorobenzene	10	Ū
1,2-Dibromo-3-chloropropane	10	Ū
1,2,4-Trichlorobenzene	10	U
	Toluene trans-1,3-Dichloropropene 1,1,2-Trichloroethane Tetrachloroethene 2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene Ethylbenzene Xylene (Total) Styrene Bromoform Isopropylbenzene 1,1,2,2-Tetrachloroethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropane	Methylcyclohexane 10 1,2-Dichloropropane 10 Bromodichloromethane 10 cis-1,3-Dichloropropene 10 4-Methyl-2-Pentanone 10 Toluene 10 trans-1,3-Dichloropropene 10 1,1,2-Trichloroethane 10 Tetrachloroethene 10 2-Hexanone 10 Dibromochloromethane 10 1,2-Dibromoethane 10 Chlorobenzene 10 Ethylbenzene 10 Xylene (Total) 10 Styrene 10 Bromoform 10 1,2,2-Tetrachloroethane 10 1,3-Dichlorobenzene 10 1,4-Dichlorobenzene 10 1,2-Dichlorobenzene 10 1,2-Dichlorobenzene 10 1,2-Dibromo-3-chloropropane 10

* Transferred from BITT3 D

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

B17T3

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER Lab Sample ID: 040018-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE123

Date Received: 01/14/04 Level: (low/med) LOW

% Moisture: not dec. _____ Date Analyzed: 01/19/04

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

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

CONCENTRATION UNITS:

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

l ———				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
======================================		=======	=======================================	=====
1.				
2.				
3.				
4.				
5.				
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26.				
27.				
28.				
29.				
30.				

				B17T4
Lab Name:	CEIMIC CORP	Contract:	68-W-03-018	

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Lab Sample ID: 040018-02 Matrix: (soil/water) WATER

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE149

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. Date Analyzed: 01/20/04

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

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

> CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

CAS NO. COMPOUND 75-71-8 Dichlorodifluoromethane 10 74-87-3 Chloromethane 10 75-01-4 Vinyl Chloride 10 74-83-9 Bromomethane 10 75-00-3 Chloroethane <u>10</u> 10

110-82-7 Cyclohexane

Benzene 107-06-2 1,2-Dichloroethane

71-43-2

56-23-5 Carbon Tetrachloride

 $\overline{10}$

10

10

10

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VOLATILE ORGANICS ANALYSIS DATA SHEET

B17T4

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE149

Date Received: 01/14/04

Level: (low/med) LOW

Date Analyzed: 01/20/04

% Moisture: not dec. _____

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

Soil Extract Volume: ____(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND

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

79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U_
78-87-5	1,2-Dichloropropane	10	
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	Ū
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	Ū
127-18-4	Tetrachloroethene	(O) 2	3
591-78-6	2-Hexanone	10	Ŭ
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	<u>U_</u>
100-41-4	Ethylbenzene	10	Ū
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	<u>U</u>
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	Ü
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	<u> </u>
106-46-7	1,4-Dichlorobenzene	10	<u>U</u>
95-50-1		10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	X
120-82-1	1,2,4-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

B17T4	
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Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-02

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

Lab File ID: OE149

Level: (low/med) LOW

Date Received: 01/14/04

% Moisture: not dec. _____

Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (mm)

Number TICs found: 0

Dilution Factor: 1.0

Soil Extract Volume: ____(uL) .

Soil Aliquot Volume: ____(uL)

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

COMPOUND NAME RTEST. CONC. CAS NUMBER Q 8. 10. $\overline{11}$. 12. 13. 14. 15. 16. 17. 18. 19. 21. 22. 23. 24. 25. <u> 26.</u> 27. 28. 29. 30.

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

		B17 T 5
Lab Name: CEIMIC CORP	Contract: 68-W-03-018	

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER Lab Sample ID: 040018-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE168

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. _____ Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (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

			_
75-71-8	Dichlorodifluoromethane	10	U .
74-87-3	Chloromethane	10	Ū
75-01-4	Vinyl Chloride	10	Ū
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	ਹ –
75-69-4	Trichlorofluoromethane	10	<u>u</u>
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	Ū
75-09-2	Methylene Chloride	13	BV
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	Ū
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U.I
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	Ŭ
110-82-7	Cyclohexane	10	Ū
56-23-5	Carbon Tetrachloride	10	Ū
71-43-2	Benzene	10	Ū
107-06-2	1,2-Dichloroethane	10	Ū

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

	B17T5
Contract: 68-W-03-018	

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER Lab Sample ID: 040018-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE168

Lab Name: CEIMIC CORP

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. ____ Date Analyzed: 01/21/04

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

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) <u>UG/L</u> Q

		Ŭ_
Methylcyclohexane	10	Ū
1,2-Dichloropropane	10	Ū
Bromodichloromethane	10	Ū
cis-1,3-Dichloropropene	10	Ū
4-Methyl-2-Pentanone	10	U
Toluene	10	Ū
trans-1,3-Dichloropropene	10	Ū
1,1,2-Trichloroethane	10	U
Tetrachloroethene	10 8	20
2-Hexanone	10	UT
Dibromochloromethane	10	Ū
1,2-Dibromoethane	10	Ū
Chlorobenzene	10	U
Ethylbenzene	10	Ŭ
Xylene (Total)	10	Ū
Styrene	10	Ū
Bromoform	10	U
Isopropylbenzene	10	Ū
1,1,2,2-Tetrachloroethane	10	Ū
1,3-Dichlorobenzene	10	Ū
1,4-Dichlorobenzene	10	Ū
1,2-Dichlorobenzene	10	Ū
	10	Ü
	10	<u>U</u>
	Toluene trans-1,3-Dichloropropene 1,1,2-Trichloroethane Tetrachloroethene 2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene Ethylbenzene Xylene (Total) Styrene Bromoform Isopropylbenzene 1,1,2,2-Tetrachloroethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene	Methylcyclohexane 10 1,2-Dichloropropane 10 Bromodichloromethane 10 cis-1,3-Dichloropropene 10 4-Methyl-2-Pentanone 10 Toluene 10 trans-1,3-Dichloropropene 10 1,1,2-Trichloroethane 10 Tetrachloroethane 10 2-Hexanone 10 Dibromochloromethane 10 1,2-Dibromoethane 10 Chlorobenzene 10 Ethylbenzene 10 Xylene (Total) 10 Styrene 10 Bromoform 10 Isopropylbenzene 10 1,1,2,2-Tetrachloroethane 10 1,3-Dichlorobenzene 10 1,4-Dichlorobenzene 10 1,2-Dichlorobenzene 10 1,2-Dichlorobenzene 10 1,2-Dibromo-3-chloropropane 10

VOLATILE ORGANICS ANALYSIS DATA SHEET

	TENTATIVELY IDENTIF	'IED COMPOUNDS	
			B17T5
?	Contr	act: 68-W-03-018	

Lab Name: CEIMIC CORP

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-03

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

Lab File ID: OE168

Level: (low/med) LOW

Date Received: 01/14/04

% Moisture: not dec. _____

Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL)

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

Number TICs found: 1

30.

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	20.41	26	# R
2.				<u> </u>
3.				
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12.				
13.				
14.				
16.				
17.				
18.				
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23.				
24.				
25. 26.				
26.				
27.				
28.				
29.				

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17T6)	
Lab Name: CEIMIC CORP Contract: 68-W-03-018	1	

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER Lab Sample ID: 040018-04

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE126

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. ____ Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (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

75-71-8	Dichlorodifluoromethane	10	U
74-87-3	· Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	Ū
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	Ū.
75-09-2	Methylene Chloride	22	BUT
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	Ū
75-34-3	1,1-Dichloroethane	10	Ü
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	Ū
71-55-6	1,1,1-Trichloroethane	10	Ū
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	Ū
71-43-2	Benzene	10	Ū
107-06-2	1,2-Dichloroethane	10	Ū

VOLATILE ORGANICS ANALYSIS DATA SHEET

B17T6	

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-04

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE126

Level: (low/med) LOW

Date Received: 01/14/04

% Moisture: not dec.

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____(uL)

Soil Aliquot Volume: ____(uL)

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

CAS NO. COMPOUND

79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	Ū
78-87-5	1,2-Dichloropropane	10	Ū
75-27-4	Bromodichloromethane	10	Ū
10061-01-5	cis-1,3-Dichloropropene	10	Ū
108-10-1	4-Methyl-2-Pentanone	10	Ū
108-88-3	Toluene	10	Ū
10061-02-6	trans-1,3-Dichloropropene	10	Ū
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	<u>U</u>
591-78-6	2-Hexanone	. 10	U J
124-48-1	Dibromochloromethane	10	ט
106-93-4	1,2-Dibromoethane	10	Ū
108-90-7	Chlorobenzene	10	<u>U</u>
100-41-4	Ethylbenzene	10	Ū
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	Ū
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	Ü
541-73-1	1,3-Dichlorobenzene	10	Ū
106-46-7	1,4-Dichlorobenzene	10	Ū
95-50-1	1,2-Dichlorobenzene	10	Ū
96-12-8	1,2-Dibromo-3-chloropropane	10	Ū
120-82-1	1,2,4-Trichlorobenzene	10	Ū

1F VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B17T6	

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER Lab Sample ID: 040018-04

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE126

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. ____ Date Analyzed: 01/19/04

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

Number TICs found: 0

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

CONCENTRATION UNITS: (ug/L or ug/Kq) uq/L

CAS NUMBER COMPOUND NAME RTEST. CONC. 0 8. 10. 11. 12. 13. 14. 15. 16. 17. 18. <u> 19.</u> 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.

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EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

B17T7

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-05

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE127

Level: (low/med) LOW

Date Received: 01/14/04

% Moisture: not dec. _____

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____(uL)

Soil Aliquot Volume: ____(uL)

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

CAS NO. COMPOUND

75-71-8	Dichlorodifluoromethane	10	U J
74-87-3	Chloromethane	10	U T
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	_ 10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	Ū
75-35-4	1,1-Dichloroethene	10	Ū .
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	υJ
67-64-1	Acetone	10	UJ
75-15-0	Carbon Disulfide	10	Ū
79-20-9	Methyl Acetate	10	U
75-09-2		21	BUJ
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	Ū
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	UJ
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	υ
56-23-5	Carbon Tetrachloride	10	υ
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER Lab Sample ID: 040018-05

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE127

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. _____ Date Analyzed: 01/19/04

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

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

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

CAS NO. COMPOUND

79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	Ū
75-27-4	Bromodichloromethane	10	Ū
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	Ū
108-88-3	Toluene	10	Ū
10061-02-6	trans-1,3-Dichloropropene	10	Ū
79-00-5	1,1,2-Trichloroethane	10	Ū
127-18-4	Tetrachloroethene	10 2	1 Jan 1
591-78-6	2-Hexanone	10	UJ
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	Ū
108-90-7	Chlorobenzene	10	Ū
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	Ū
100-42-5	Styrene	10	Ū
75-25-2	Bromoform	10	Ū
98-82-8	Isopropylbenzene	10	Ū
79-34-5	1,1,2,2-Tetrachloroethane	10	Ū
541-73-1	1,3-Dichlorobenzene	10	Ū
106-46-7	1,4-Dichlorobenzene	10	Ū
95-50-1	1,2-Dichlorobenzene	10	Ū
96-12-8	1,2-Dibromo-3-chloropropane	10	Ū
120-82-1	1,2,4-Trichlorobenzene	10	Ü

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	B17T7
1	

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-05

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

Lab File ID: OE127

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. ____

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: __ (uL)

Soil Aliquot Volume: (uL)

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

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	20.45		78 6
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.			<u> </u>	
11.				
12.				
<u></u>				
14. 15.				· · · · · · · · · · · · · · · · · · ·
.6.				
7.				
.8.				
.9.	_ 			
20.				
1. 2.				
3.				
<u>3.</u> 4.				
<u>5.</u>				
6.		-		
7.				
8.				
9.				
0.				

EPA SAMPLE NO.

B17W4 Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-06

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

Lab File ID: OE128

Level: (low/med) LOW

Date Received: 01/14/04

% Moisture: not dec.

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

· Soil Aliquot Volume: ____(uL)

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

CAS NO. COMPOUND

75-71-8	Dichlorodifluoromethane		U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	Ū
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	UJ
67-64-1	Acetone	10	0 3
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	22	BUJ
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	Ū
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	_ 10	U
78-93-3 67-66-3	Chloroform	10	
			Ū
67-66-3	Chloroform 1,1,1-Trichloroethane Cyclohexane	10	Ū
67-66-3 71-55-6	Chloroform 1,1,1-Trichloroethane	10 10	U
67-66-3 71-55-6 110-82-7	Chloroform 1,1,1-Trichloroethane Cyclohexane Carbon Tetrachloride Benzene	10 10 10	U U U
67-66-3 71-55-6 110-82-7 56-23-5	Chloroform 1,1,1-Trichloroethane Cyclohexane Carbon Tetrachloride	10 10 10 10	U U U

1B VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17W4

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER Lab Sample ID: 040018-06

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE128

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. ____ Date Analyzed: 01/19/04

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

CAS NO. COMPOUND

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

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

79-01-6 Trichloroethene 108-87-2 Methylcyclohexane 78-87-5 1,2-Dichloropropan 10 10 Ū 78-87-5 1,2-Dichloropropane 10 IJ 75-27-4 Bromodichloromethane 10 U cis-1,3-Dichloropropene 10061-01-5 10 Ū 4-Methyl-2-Pentanone 108-10-1 10 Ū 108-88-3 Toluene 10 Ū 10061-02-6 trans-1,3-Dichloropropene 10 Ū 79-00-5 1,1,2-Trichloroethane Ū 10 Tetrachloroethene 127-18-4 10 U 591-78-6 2-Hexanone 10 124-48-1 Dibromochloromethane 10 Ū 106-93-4 1,2-Dibromoethane 10 U 108-90-7 Chlorobenzene 10 Ū 100-41-4 Ethylbenzene 10 Ū 1330-20-7 Xylene (Total) 1.0 U 100-42-5 Styrene 10 75-25-2 Bromoform 10 Ū 98-82-8 Isopropylbenzene 10 1,1,2,2-Tetrachloroethane 1,3-Dichlorobenzene 79-34-5 Ū 10 541-73-1 10 Ū 1,4-Dichlorobenzene 106-46-7 10 Ū 1,2-Dichlorobenzene 95-50-1 10 IJ 96-12-8 1,2-Dibromo-3-chloropropane 10 IJ 120-82-1 1,2,4-Trichlorobenzene 10 Ū

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B17W4	

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 32512 SAS No.:

SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-06

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

Lab File ID: OE128

Level: (low/med)

LOW

Date Received: 01/14/04

% Moisture: not dec. _____

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL)

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

Number TICs found: 0

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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17W5

Contract: 68-W-03-018 Lab Name: CEIMIC CORP

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER Lab Sample ID: 040018-12

Lab File ID: OE134 Sample wt/vol: 5.000 (g/mL) ML

Date Received: 01/16/04 Level: (low/med) LOW

Date Analyzed: 01/19/04 % Moisture: not dec. ____

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

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L O CAS NO. COMPOUND

75-71-8	Dichlorodifluoromethane	10	TU T
$\frac{73 + 13}{74 - 87 - 3}$	Chloromethane	10	U *
75-01-4	Vinyl Chloride	10	U A
74-83-9	Bromomethane	10	U
$\frac{75-00-3}{75-00-3}$	Chloroethane	10	 U ***
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1.1-Dichloroethene	10	1 0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	TU 3
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U L
79-20-9	Methyl Acetate	10	 U -
75-09-2		22	BUJ
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	1 0
156-59-2		10	
78-93-3	2-Butanone		U
67-66-3	Chloroform	10	UT
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
		10	Ü
71-43-2	Benzene 1,2-Dichloroethane	10	U
107-06-2	1,2-Dichtoroechane		U

EPA SAMPLE NO.

B17W5

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-12

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

Lab File ID: OE134

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec. _____

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL)

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

79-01-6	Trichloroethene	10 U
108-87-2	Methylcyclohexane	10 U
78-87-5	1,2-Dichloropropane	10 U
75-27-4	Bromodichloromethane	10 U
10061-01-5	cis-1,3-Dichloropropene	10 U
108-10-1	4-Methyl-2-Pentanone	10 Ü
108-88-3	Toluene	10 U
10061-02-6	trans-1,3-Dichloropropene	10 U
79-00-5	1,1,2-Trichloroethane	10 U
127-18-4	Tetrachloroethene	10 U
591-78-6	2-Hexanone	10 U
124-48-1	Dibromochloromethane	10 U
106-93-4	1,2-Dibromoethane	10 U
108-90-7	Chlorobenzene	10 U
100-41-4	Ethylbenzene	10 U
1330-20-7	Xylene (Total)	10 U
100-42-5	Styrene	10 U
75-25-2	Bromoform	10 Ü
98-82-8	Isopropylbenzene	10 U
79-34-5	1,1,2,2-Tetrachloroethane	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
95-50-1	1,2-Dichlorobenzene	10 U
96-12-8	1,2-Dibromo-3-chloropropane	10 Ū
120-82-1	1,2,4-Trichlorobenzene	10 U_

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

B17W5	

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER Lab Sample ID: 040018-12

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE134

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec. ____ Date Analyzed: 01/19/04

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

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

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	17.64	12	===== F R
2.	UNKNOWN	20.44	9	J8 12
3.				30 17
4.				
5.				
6.				
7.				
8				
9				
10.				
11.				
12.				
13.				
14.				
15				
16.				
17.				
18.				
19. 20.		-		
21.				
22.				
23.				
24.				
25.		 		
26.		+		
27.				
28.				
29.				
30.		<u> </u>		

Case No.: 32512 SAS No.:

EPA SAMPLE NO.

B17W6 Contract: 68-W-03-018

Lab Name: CEIMIC CORP

SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-07

Lab Code: CEIMIC

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

Lab File ID: OE129

Level: (low/med) LOW

Date Received: 01/14/04

% Moisture: not dec. _____

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

CAS NO.

Dilution Factor: 1.0

Soil Extract Volume: (uL)

COMPOUND

Soil Aliquot Volume: (uL)

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

75-71-8	Dichlorodifluoromethane	10	UT
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	Ü
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	Ŭ
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	Ū
75-09-2		23	BUJ
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10_	Ū
75-34-3	1,1-Dichloroethane	10	Ū
156-59-2	cis-1,2-Dichloroethene	10	Ū
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U _
71-55-6	1,1,1-Trichloroethane	10_	U_
110-82-7	Cyclohexane	9	J
56-23 - 5	Carbon Tetrachloride	10	U
71-43-2	Benzene	360 450	18
107-06-2	1,2-Dichloroethane	10	U

Arthur Start from C17w6D6

B17W6

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-07

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE129

Date Received: 01/14/04

Level: (low/med) LOW

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____(uL)

% Moisture: not dec. _____

Soil Aliquot Volume: ____(uL)

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

		·	
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	3	J
78-87-5	1,2-Dichloropropane	10	Ū
75-27-4	Bromodichloromethane	10	Ū
10061-01-5	cis-1,3-Dichloropropene	10	Ū
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	56	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	Ū
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U J
$\frac{124-48-1}{124-1}$	Dibromochloromethane	10	Ū
106-93-4	1,2-Dibromoethane .	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	110	
1330-20-7	Xylene (Total)	400	
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	4	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	Ū
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	Ū
120-82-1	1,2,4-Trichlorobenzene	10	Ū

B17W6

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Contract: 68-W-03-018

Case No.: 32512 SAS No.: Tab Code: CEIMIC

SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-07

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

Lab File ID: OE129

Level: (low/med) LOW

Lab Name: CEIMIC CORP

Date Received: 01/14/04

% Moisture: not dec. _____

Date Analyzed: 01/19/04

GC Column: DB-624

ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL)

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

Number TICs found: 14

		1	1	
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	STRAIGHT-CHAIN ALKENE	2.47	30	
2.	BRANCHED ALKENE	2.93	220	
3. 1708-29-8	FURAN, 2,5-DIHYDRO-	3.31		NJ
4.	STRAIGHT-CHAIN ALKENE	4.93	83	
5.	BRANCHED ALKENE	5.81	610	
6.	BRANCHED ALKENE	6.85	58	
7.	C3-BENZENE ISOMER	17.61	20	
8. 620-14-4	BENZENE, 1-ETHYL-3-METHYL-	17.76	66	NJ
9. 526-73-8	BENZENE, 1,2,3-TRIMETHYL-	17.90	21	NJ
10. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	18.22	25	NJ
11. 95-36-3	1,2,4-TRIMETHYLBENZENE	18.50	91	NJ
12. 95-36-3	1,2,4-TRIMETHYLBENZENE	19.15	23	NJ
13. 496-11-7	INDANE	19.46	30	ŊJ
14.	UNKNOWN	20.45	11	JEIL
15.				`
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25				
26.				
27.				
28.				
29				l
30.				

B17W7

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-13

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

Lab File ID: OE135

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____(uL)

Soil Aliquot Volume: (uL)

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

<u></u>			
75-71-8	Dichlorodifluoromethane	10	U 3
74-87-3	Chloromethane	10	U 3
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U J
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	<u>U 3</u>
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	Ū
79-20-9	Methyl Acetate	. 10	U
75-09-2	Methylene Chloride	20	BUI
156-60-5	trans-1,2-Dichloroethene	10	n 7
1634-04-4	Methyl tert-Butyl Ether	10	Ū
75-34-3	1,1-Dichloroethane	10	Ū
156-59-2	cis-1,2-Dichloroethene	10	Ū
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	Ū
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	Ū
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	Ū

EPA SAMPLE NO.

		B17W7
ract:	68-W-03-018	

Lab Name: CEIMIC CORP

Contr

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-13

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

Lab File ID: OE135

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q CAS NO. COMPOUND 79-01-6 Trichloroethene

108-87-2	Methylcyclohexane	10	<u>U</u>
78-87-5	1,2-Dichloropropane		U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	Ŭ
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	Ū
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	Ū
106-93-4	1,2-Dibromoethane	10	Ū
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	Ū
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	Ū
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1.2.4-Trichlorobenzene	10	Ū

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

B17W7

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-13

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

Lab File ID: OE135

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec. _____

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

Number TICs found: 2

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL)

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN SILOXANE	17.64	24	
1.	UNKNOWN	20.44	24	JD A
$\frac{2}{3}$.	Olykhowin	20.44		(%)
4.				<u> </u>
5.				
6.				
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EPA SAMPLE NO.

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER Lab Sample ID: 040018-11

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE151

Lab Name: CEIMIC CORP

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. _ _ _ Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (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

		 	
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	· Chloromethane	10	UJ
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3		10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	Ū
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
- <u> </u>			7720, 51
75-09-2	Methylene Chloride	10 8	JB U
156-60-5	trans-1,2-Dichloroethene	10	U
	trans-1,2-Dichloroethene Methyl tert-Butyl Ether		U
156-60-5	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane	10	Ū
156-60-5 1634-04-4	trans-1,2-Dichloroethene Methyl tert-Butyl Ether	10	Ŭ Ū
156-60-5 1634-04-4 75-34-3	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane	10 10 10	U U
156-60-5 1634-04-4 75-34-3 156-59-2	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane cis-1,2-Dichloroethene 2-Butanone Chloroform	10 10 10 10	U U U U
156-60-5 1634-04-4 75-34-3 156-59-2 78-93-3	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane cis-1,2-Dichloroethene 2-Butanone Chloroform 1,1,1-Trichloroethane	10 10 10 10 10	U U U U
156-60-5 1634-04-4 75-34-3 156-59-2 78-93-3 67-66-3	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane cis-1,2-Dichloroethene 2-Butanone Chloroform 1,1,1-Trichloroethane Cyclohexane	10 10 10 10 10 10	U U U U U
156-60-5 1634-04-4 75-34-3 156-59-2 78-93-3 67-66-3 71-55-6	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane cis-1,2-Dichloroethene 2-Butanone Chloroform 1,1,1-Trichloroethane	10 10 10 10 10 10 10	U U U U U T U
156-60-5 1634-04-4 75-34-3 156-59-2 78-93-3 67-66-3 71-55-6 110-82-7	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane cis-1,2-Dichloroethene 2-Butanone Chloroform 1,1,1-Trichloroethane Cyclohexane	10 10 10 10 10 10 10 10	U U T U U

EPA SAMPLE NO.

B17W8

Contract: 68-W-03-018 Lab Name: CEIMIC CORP

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Lab Sample ID: 040018-11 Matrix: (soil/water) WATER

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE151

Level: (low/med) LOW Date Received: 01/14/04

Date Analyzed: 01/20/04 % Moisture: not dec.

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

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

			+
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane		Ū
78-87-5	1,2-Dichloropropane	10	Ū
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	Ū
108-88-3	Toluene	10	Ū
10061-02-6	trans-1,3-Dichloropropene	10	Ū
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	Ū
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	Ū
108-90-7	Chlorobenzene	. 10	U
100-41-4	Ethylbenzene	10	Ū
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	Ū
_98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	Ū
541-73-1	1,3-Dichlorobenzene	10	Ū
106-46-7	1,4-Dichlorobenzene	10	Ū
95-50-1	1,2-Dichlorobenzene	10	Ū
96-12-8	1,2-Dibromo-3-chloropropane	10	UR
120-82-1	1,2,4-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

	B17W8
L 8	1

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER Lab Sample ID: 040018-11

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE151

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. _____ Date Analyzed: 01/20/04

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

Number TICs found: 0

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

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

CAS NUMBER COMPOUND NAME RT EST. CONC. 10. 11. 12. 13. <u>14</u>. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29.

EPA SAMPLE NO.

B17W9 Contract: 68-W-03-018

Lab Name: CEIMIC CORP

Case No.: 32512 SAS No.:

SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-14

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

Lab Code: CEIMIC

Lab File ID: OE136

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec. _____

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____(uL)

Soil Aliquot Volume: ____(uL)

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

75-71-8	Dichlorodifluoromethane	10	<u>U_1</u>
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U J
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	UJ
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	Ū
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U T
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	18	BUI
156-60-5	trans-1,2-Dichloroethene	10	T T
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	Ū
156-59-2	cis-1,2-Dichloroethene	_ 10	U
78-93-3	2-Butanone	10	U J
67-66-3	Chloroform	10	Ū
71-55-6	1,1,1-Trichloroethane	10	Ū
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	Ū
71-43-2	Benzene	10	Ū
107-06-2	1,2-Dichloroethane	10	Ū

EPA SAMPLE NO.

B17**W**9

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER Lab Sample ID: 040018-14

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE136

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec. Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (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

79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	Ū
78-87-5	1,2-Dichloropropane	10	Ū
75-27-4	Bromodichloromethane	10	Ū
10061-01-5	cis-1,3-Dichloropropene	10	Ū
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U _
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	Ŭ
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	Ū
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	บ
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	Ū
75-25-2	Bromoform	10	Ü
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	ט
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U_
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

B17 W 9	

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER Lab Sample ID: 040018-14

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE136

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec. ____ Date Analyzed: 01/19/04

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

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

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

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
======================================	UNKNOWN SILOXANE	17.64	15	- 484-
2.				
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27.				
28.		+		
30.		+		

B17X0

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-15

Lab File ID: OE137

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

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

Soil Aliquot Volume: ____(uL)

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

<u>75-71-8</u>	Dichlorodifluoromethane	10	UJ
74-87-3	.Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U _
75-00-3	Chloroethane	10	U 3
75-69-4	Trichlorofluoromethane	10	Ü
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	UJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U,
75-09-2	Methylene Chloride	16	CVS
156-60-5	trans-1,2-Dichloroethene	10	U 3
1634-04-4	Methyl tert-Butyl Ether	10	Ū
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	UJ
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	Ū
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	Ū
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	Ū

EPA SAMPLE NO.

B17X0

Contract: 68-W-03-018 Lab Name: CEIMIC CORP

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-15

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE137

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec. _____

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____(uL)

Soil Aliquot Volume: (uL)

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

79-01-6	Trichloroethene	10	Ū
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	_ 10	Ū
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	Ū
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	UU
124-48-1	Dibromochloromethane	10	Ū
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	. 10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	Ŭ
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	Ū
106-46-7	1,4-Dichlorobenzene	10	Ū
95-50-1	1,2-Dichlorobenzene	10	Ŭ
96-12-8	1,2-Dibromo-3-chloropropane	10	Ū
120-82-1	1,2,4-Trichlorobenzene	10	[U

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B17X0

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-15

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

Lab File ID: OE137

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____(uL)

Soil Aliquot Volume: ____(uL)

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

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1.	UNKNOWN SILOXANE	17.63	· ·	
2.	UNKNOWN AMIDE	20.44	33 16	J
3.				
4.				
5.				
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15. 16.				[
17.				
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19.				
20.		-		
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26.				
27.				
28.				
29.				
30.				

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

B17X3	

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-16

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

Lab File ID: OE138

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec. _____

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____(uL)

Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q CAS NO. COMPOUND

75-71-8	Dichlorodifluoromethane	10	U J
74-87-3	Chloromethane	10	U 3
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	23	BUT
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	Ü
78-93-3	2-Butanone	10	<u> </u>
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	Ū
107-06-2	1,2-Dichloroethane	10	U

EPA SAMPLE NO.

B17X3

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-16

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

Lab File ID: OE138

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec. _____

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (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

1			
79-01-6	Trichloroethene	10	Ŭ
108-87-2	Methylcyclohexane		U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U —
108-10-1	4-Methyl-2-Pentanone	10	<u> </u>
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	_ 10	U
79-00-5	1,1,2-Trichloroethane	10	Ū
127-18-4	Tetrachloroethene	10 2	JU
591-78-6	2-Hexanone	10	U J
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	Ū
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	Ū
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	Ū
106-46-7	1,4-Dichlorobenzene	10	Ū
95-50-1	1,2-Dichlorobenzene	10	Ū
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
·			

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

B17X3	

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Lab Sample ID: 040018-16 Matrix: (soil/water) WATER

Lab File ID: OE138 Sample wt/vol: 5.000 (g/mL) ML

Date Received: 01/16/04 Level: (low/med) LOW

% Moisture: not dec. _ Date Analyzed: 01/19/04

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

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L Number TICs found: 2

			J. J.	
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	i i	17 (2	=======================================	<u></u>
$\frac{1}{2}$.	UNKNOWN SILOXANE UNKNOWN	17.63 20.44	13	A 1
3.	ONKNOWN	20.44	11	A Pro-
<u> </u>	·			
				
7.			<u> </u>	
8. 9.				
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SDG No.: B17T3

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

Matrix: (soil/water) WATER Lab Sample ID: 040018-17

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE152

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec. Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (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

 75-71-8
 Dichlorodifluoromethane
 10
 U

 74-87-3
 Chloromethane
 10
 U

 75-01-4
 Vinyl Chloride
 10
 U

 74-87-3
 Output
 10
 U

 75-01-4
 Vinyl Chloride
 10
 U

14-01-3	. Cittoromethate		
75-01-4	Vinyl Chloride	10	U .
74-83-9		10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	Ū
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	Ū
67-64-1	Acetone	10	Ū
75-15-0	Carbon Disulfide	10	Ū
79-20-9	Methyl Acetate	10	Ū
75-09-2	Methylene Chloride	10 2	JES !
156-60-5	trans-1,2-Dichloroethene	10	Ū
1634-04-4	Methyl tert-Butyl Ether	10	Ū
75-34-3	1,1-Dichloroethane	10	Ū
156-59-2	cis-1,2-Dichloroethene	10	Ū
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	Ū
71-55-6	1,1,1-Trichloroethane	10	Ū
110-82-7	Cyclohexane	10	Ū
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene -	10	U
107-06-2	1,2-Dichloroethane	10	IJ

EPA SAMPLE NO.

B17X4

Contract: 68-W-03-018 Lab Name: CEIMIC CORP

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Lab Sample ID: 040018-17 Matrix: (soil/water) WATER

Lab File ID: OE152 Sample wt/vol: 5.000 (g/mL) ML

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec. _____ Date Analyzed: 01/20/04

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

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

> CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

. — — — — —			T
79-01-6	Trichloroethene	<u> </u>	<u>U</u>
108-87-2	Methylcyclohexane	10_	Ū
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	Ū
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	Ū
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	Ū
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	Ū
108-90-7	Chlorobenzene	10	Ū
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	Ū
79-34-5	1,1,2,2-Tetrachloroethane	10	Ū
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	Ū
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	Ø K
120-82-1	1,2,4-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

B17X4	

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-17

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

Lab File ID: OE152

Level: (low/med)

LOW

Date Received: 01/16/04

% Moisture: not dec. _____

Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____(uL)

Soil Aliquot Volume: ____(uL)

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

Number TICs found: 0

				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		= ======	===========	=====
1.				
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29. 30.		-		
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FORM I VOA-TIC

OLM04.3

B17X9

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-18

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE153

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: (uL)

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

75-71-8	Dichlorodifluoromethane	10	Ū
74-87-3	Chloromethane	10	Ü
75-01-4	Vinyl Chloride	10	0 7
	Bromomethane	10	TT -
74-83-9			U
75-00-3	Chloroethane	10	
75-69-4	Trichlorofluoromethane	10	ַ
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	Ū
67-64-1	Acetone	10	ับ
75-15-0	Carbon Disulfide	10	Ū
79-20-9	Methyl Acetate	10	Ū
75-09-2	Methylene Chloride	10 7	JES U
156-60-5	trans-1,2-Dichloroethene	10	Ū
1634-04-4	Methyl tert-Butyl Ether	10	Ū
75-34-3	1,1-Dichloroethane	10	Ū
156-59-2	cis-1,2-Dichloroethene	10	Ŭ
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	Ū
110-82-7	Cyclohexane	10	Ū
56-23-5	Carbon Tetrachloride	10	Ū
71-43-2	Benzene	10	Ū
107-06-2	1,2-Dichloroethane	10	U

EPA SAMPLE NO.

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER Lab Sample ID: 040018-18

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE153

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec. _____ Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (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

		
		Ŭ
Methylcyclohexane	10	U
1,2-Dichloropropane	10	U
Bromodichloromethane	10	U
cis-1,3-Dichloropropene	10	U
4-Methyl-2-Pentanone	10	Ū
Toluene	10	Ū
trans-1,3-Dichloropropene	10	U
1,1,2-Trichloroethane	10	U
Tetrachloroethene	24	U
2-Hexanone .	10	Ü
Dibromochloromethane	10	Ū
1,2-Dibromoethane	10	U
Chlorobenzene	10	U
Ethylbenzene	10	U
Xylene (Total)	10	Ū
Styrene	10	Ū
Bromoform	10	U
	10	U
1,1,2,2-Tetrachloroethane	10	Ū
	10	<u>u</u>
		Ū
	10	Ū
1,2-Dibromo-3-chloropropane		B K
1,2,4-Trichlorobenzene	10	"
	Toluene trans-1,3-Dichloropropene 1,1,2-Trichloroethane Tetrachloroethene 2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene Ethylbenzene Xylene (Total) Styrene Bromoform Isopropylbenzene	Methylcyclohexane 10 1,2-Dichloropropane 10 Bromodichloromethane 10 cis-1,3-Dichloropropene 10 4-Methyl-2-Pentanone 10 Toluene 10 trans-1,3-Dichloropropene 10 1,1,2-Trichloroethane 10 Tetrachloroethane 24 2-Hexanone 10 Dibromochloromethane 10 1,2-Dibromoethane 10 Ethylbenzene 10 Xylene (Total) 10 Styrene 10 Bromoform 10 Isopropylbenzene 10 1,1,2,2-Tetrachloroethane 10 1,3-Dichlorobenzene 10 1,4-Dichlorobenzene 10 1,2-Dichlorobenzene 10 1,2-Dichlorobenzene 10 1,2-Dibromo-3-chloropropane 10

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

ATIVELI	IDENTIFIED	COMPOUNDS	B17X9	
	Contract:	68-W-03-018		

Lab Name: CEIMIC CORP	Contract: 68-W-03-018	
Lab Code: CEIMIC Case No.: 32512	SAS No.: SDG No.: B1	7 T 3
Matrix: (soil/water) WATER	Lab Sample ID: 040018	-18
Sample wt/vol: 5.000 (g/mL) ML	Lab File ID: OE153	
Level: (low/med) LOW	Date Received: 01/16/	04
% Moisture: not dec	Date Analyzed: 01/20/	04
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor: 1.0	
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
1.	****************	== ====================================		====
2. 3.				
3				
4.				
5. 6.				
7.				
8.				
9				
10.				
11.	-			
12. 13.				
14.				
15.				
16.		-		
17.				
18. 19.				
20				
20. 21. 22.				
22.				
23.				
24.				
25. 26.				
27.		 		
28.				
29.				
30.				

EPA SAMPLE NO.

B17Y1

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER Lab Sample ID: 040018-19

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE154

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec. ____ Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (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

75-71-8	Dichlorodifluoromethane	10	U
74-87-3	. Chloromethane	10	U J
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	Ū —
75-69-4	Trichlorofluoromethane	10	Ū
75-35-4	1,1-Dichloroethene	10	Ū
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	Ū
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	Ū
75-09-2	Methylene Chloride	10 -9-4	JBU
156-60-5	trans-1,2-Dichloroethene	10	Ū
1634-04-4	Methyl tert-Butyl Ether	10	Ū
75-34-3	1,1-Dichloroethane	10	Ū
156-59-2	cis-1,2-Dichloroethene	10	Ū
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	Ū
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	Ū

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

EPA SAMPLE NO.

B17Y1

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Matrix: (soil/water) WATER

Lab Sample ID: 040018-19

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

Lab File ID: OE154

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec. _____

Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL)

CAS NO. COMPOUND

Soil Extract Volume: ____(uL)

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

79-01-6	Trichloroethene	2	J
108-87-2	Methylcyclohexane	10	Ū
78-87-5	1,2-Dichloropropane	10	Ū
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	Ū
108-88-3	Toluene	10	Ū
10061-02-6	trans-1,3-Dichloropropene	10	Ū
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	1/
591-78-6	2-Hexanone	10	Ű
124-48-1	Dibromochloromethane	10	Ū
106-93-4	1,2-Dibromoethane	10	Ū
108-90-7	Chlorobenzene	10	Ū
100-41-4	Ethylbenzene	· 10	Ū
1330-20-7	Xylene (Total)	10	Ū
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	Ū
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	Ū
96-12-8	1,2-Dibromo-3-chloropropane	10	Y
120-82-1	1,2,4-Trichlorobenzene	10	U

1F VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

	B17Y1	
Contract: 68-W-03-018		

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER Lab Sample ID: 040018-19

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE154

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec. ____ Date Analyzed: 01/20/04

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

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

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

Number TICs found: 0 (ug/L

Lab Name: CEIMIC CORP

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		=======	==========	=====
1.				
2. 3.				
4.				
5.				
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18.				
19. 20.				
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23.			 _	
24.				
25.				
26.				
27.	 			
28.				
29.				
30.				

B17Y2	

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3 1/13

Matrix: (soil/water) WATER

Lab Sample ID: 040018-08

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

Lab File ID: OE150

Level: (low/med) LOW

CAS NO. COMPOUND

Date Received: 01/14/04

% Moisture: not dec.

Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ___ (uĹ)

Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

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

		<u> </u>	
75-71-8	Dichlorodifluoromethane	10	Ū
74-87-3	Chloromethane	10	UT
75-01-4	Vinyl Chloride	_10	Ū
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4		10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	Ū
79-20-9		10	Ū
75-09-2		8	J
156-60-5		10	U
1634-04-4	Methyl tert-Butyl Ether	4	J
75-34-3		10	Ü
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	UJ
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	Ū
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	Ü
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

EPA SAMPLE NO.

B17Y2 FB

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T3

1813

Matrix: (soil/water) WATER

Lab Sample ID: 040018-08

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

Lab File ID: OE150

Level: (low/med) LOW

Date Received: 01/14/04

% Moisture: not dec. _____

Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____ (uL)

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

		10	1 77
79-01-6	Trichloroethene	10	Ü
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	Ū
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	Ū
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	7	Ĵ
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	Ū
1330-20-7	Xylene (Total)	10	Ŭ
100-42-5	Styrene	10	Ū
75-25-2	Bromoform	10	Ū
98-82-8	Isopropylbenzene	10	Ū
79-34-5	1,1,2,2-Tetrachloroethane	10	ט
541-73-1	1,3-Dichlorobenzene	10	Ū
106-46-7	1,4-Dichlorobenzene	10	Ū
95-50-1	1,2-Dichlorobenzene	10	Ū
96-12-8	1,2-Dibromo-3-chloropropane	10	No.
120-82-1	1,2,4-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	B17Y2	FB

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-08

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

Lab File ID: OE150

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec.

Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: (uL)

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

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
_======================================		=======	=========	l
1.	UNKNOWN AMINE	20.43	16	J
2.				
3.		_		
4.				
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14.	, , ,			
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17.				
18. 19.	_			
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27.				
28.				
29.				
30.				

EPA SAMPLE NO.

B17Y3

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

SDG No.: B17T3

Lab Code: CEIMIC Case No.: 32512 SAS No.:

Lab Sample ID: 040018-09

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

Lab File ID: OE131

Level: (low/med) LOW

Date Received: 01/14/04

% Moisture: not dec. _____

Matrix: (soil/water) WATER

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____(uL)

Soil Aliquot Volume: ____(uL)

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

		T	T
75-71-8	Dichlorodifluoromethane	10	UT
74-87-3	Chloromethane	_ 10	U
75-01-4	Vinyl Chloride	_ 10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	UT
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	Ū
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	24	8 3
156-60-5	trans-1,2-Dichloroethene	10	U ,T
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	Ū
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U 3
67-66-3	Chloroform	10	Ū
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	Ū
71-43-2	Benzene .	10	Ū
107-06-2	1,2-Dichloroethane	10	Ū

EPA SAMPLE NO.

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-09

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

Lab File ID: OE131

Level: (low/med) LOW

Date Received: 01/14/04

Date Analyzed: 01/19/04

% Moisture: not dec. _____

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL)

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

1		10	77
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	Ū
75-27-4	Bromodichloromethane	10	ע
10061-01-5	cis-1,3-Dichloropropene	10	Ū
108-10-1	4-Methyl-2-Pentanone	_ 10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	Ü
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	1.0	UJ
124-48-1		10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	1.0	Ū
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	Ü
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	Ū
96-12-8	1,2-Dibromo-3-chloropropane	10	Ū
120-82-1	1,2,4-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

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1

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-09

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

Lab File ID: OE131

Level: (low/med) LOW

Date Received: 01/14/04

% Moisture: not dec.

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL)

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

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1,	UNKNOWN	20.44	10	 Л
2.			<u></u>	
3.		-		
4.				
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6.				
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12.	 			
13.	 	-		
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28.	_			
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EPA SAMPLE NO.

Lab Name: CEIMIC CORP Contract: 68-W-03-018 B17Y4

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-20

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

Lab File ID: OE155

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec. _____

CAS NO. COMPOUND

Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL)

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

85 83 0					
75-71-8	Dichlorodifluoromethane			Ŭ	***
74-87-3	Chloromethane	10	1	Ū	J
75-01-4	Vinyl Chloride	10		U	3
74-83-9	Bromomethane	10		Ū	-344
75-00-3	Chloroethane	10		U	
75-69-4	Trichlorofluoromethane	10		Ū	
75-35-4	1,1-Dichloroethene	10		Ū	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10		Ū	
67-64-1	Acetone	10		Ū	
75-15-0	Carbon Disulfide	10		Ū	
79-20-9	Methyl Acetate	10		Ū	
75-09-2	Methylene Chloride	7		J	
156-60-5	trans-1,2-Dichloroethene	10		U	
1634-04-4	Methyl tert-Butyl Ether	4		Ĵ	
75-34-3	1,1-Dichloroethane	10		Ū	
156-59-2	cis-1,2-Dichloroethene	10		Ū	
78-93-3	2-Butanone	10		U	T
67-66-3	Chloroform	10		U	-
71-55-6	1,1,1-Trichloroethane	10		Ū	
110-82-7	Cyclohexane	10		Ū	
56-23-5	Carbon Tetrachloride	10		U	
71-43-2	Benzene	10		Ū	
107-06-2	1,2-Dichloroethane	10		Ū	

1B VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17Y4 FB Contract: 68-W-03-018

Lab Name: CEIMIC CORP

SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-20

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

Lab Code: CEIMIC Case No.: 32512 SAS No.:

Lab File ID: OE155

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____ (uL)

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

CAS NO. COMPOUND

79-01-6	Trichloroethene	10	Ū
108-87-2	Methylcyclohexane	10	Ū
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	Ū
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	Ū
127-18-4	Tetrachloroethene	8	J
591-78-6	2-Hexanone	10	Ū
124-48-1	Dibromochloromethane	10	Ū
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	Ū
541-73-1	1,3-Dichlorobenzene	10	Ū
106-46-7	1,4-Dichlorobenzene	10	Ū
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	1
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

Case No.: 32512 SAS No.:

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTI

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IFIED COMPOUNDS		
	B17Y4	وم المعيد
ract · 68-W-03-018		F (2)

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-20

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

Lab File ID: OE155

Level: (low/med) LOW

Lab Code: CEIMIC

Date Received: 01/16/04 Date Analyzed: 01/20/04

% Moisture: not dec. ____

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

GC Column: DB-624 ID: 0.25 (mm)

Soil Aliquot Volume: _ (uL)

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
======================================	UNKNOWN SILOXANE	17.62	12	F 1
2.	UNKNOWN	20.42	17	J
3.				
4				
5.				
6.				
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29. 30.			<u>.</u>	

B17Z5 Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER Lab Sample ID: 040018-10

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE132

Level: (low/med) LOW Date Received: 01/14/04

% Moisture: not dec. Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (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

75-71-8	Dichlorodifluoromethane	10	U.
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	Ü
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	UJ
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	UJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	Ū
75-09-2	Methylene Chloride	22	1801
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	Ū
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	6	J
56-23-5	Carbon Tetrachloride	10	Ū
71-43-2	Benzene ·	160 270	E
107-06-2	1,2-Dichloroethane	10	Ū

+Transferred from B172506

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EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-10

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

Lab File ID: OE132

Level: (low/med) LOW

Date Received: 01/14/04

% Moisture: not dec. _____

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

CAS NO. COMPOUND

Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL)

Soil Extract Volume: (uL)

CONCENTRATION UNITS:

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

79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	2	J
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	Ū
10061-01-5	cis-1,3-Dichloropropene	10	Ū
108-10-1	4-Methyl-2-Pentanone	10_	U
108-88-3	Toluene	31	
10061-02-6	trans-1,3-Dichloropropene	10	Ū
79-00-5	1,1,2-Trichloroethane	10	Ū
127-18-4	Tetrachloroethene	10	Ū
591-78-6	2-Hexanone	10	UJ
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	Ū
100-41-4	Ethylbenzene	67	
1330-20-7	Xylene (Total)	240	
100-42-5	Styrene	10	Ū
75-25-2	Bromoform	10	Ū
98-82-8	Isopropylbenzene	2	J
79-34-5	1,1,2,2-Tetrachloroethane	10	Ū
541-73-1	1,3-Dichlorobenzene	10	Ü
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	Ū_
120-82-1	1,2,4-Trichlorobenzene	10	U
	1,2,4-Trichlorobenzene		

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B17Z5	
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Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T3

Matrix: (soil/water) WATER

Lab Sample ID: 040018-10

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

Lab File ID: OE132

Level: (low/med) LOW

Date Received: 01/14/04

% Moisture: not dec. _____

Date Analyzed: 01/19/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

Number TICs found: 11

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		=======	=======================================	=====
1.	BRANCHED ALKENE	2.93	130	
2.	UNKNOWN	3.30	52	
3.	UNKNOWN	4.92	55	J
4. 763-29-1	1-PENTENE, 2-METHYL-	6.85	38	NJ
5.	C3-BENZENE ISOMER	17.61		J
6. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	17.76	37	ŊJ
7. 620-14-4	BENZENE, 1-ETHYL-3-METHYL-	17.90		NJ
8. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	18.22		ŊJ
9. 526-73-8	BENZENE, 1,2,3-TRIMETHYL-	18.50		ŊJ
10. 526-73-8	BENZENE, 1,2,3-TRIMETHYL-	19.15	13	NJ
11. 496-11-7	INDANE	19.45		ŊJ
12.				
13.				
14.				_
15.				
16.				
17.				
18.		-		
19.		**		
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27.				
28.			-	
29.				
30.				

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YES NO N/A

PACKAGE COMPLETENESS AND DELIVERABLES

CASE NUMBE	ir: 32512	LABORATORY:	CEIMIC
SITE NAME:	Stanton Cleaners GW	SDG Number(s):	B17T3
1.0 Chain	of Custody and Sampling Tri	p Reports	
1.1	Are the Traffic Reports/Ch present for all samples?	nain-of-Custody 1	Records
ACTIC	N: If no, contact RSCC, or obtain replacement of mi copies from the lab.		
1.2	Is the Sampling Trip Reporsamples and all fractions?		.1
ACTIO	N: If no, contact either RS obtain this information contractor.)PO to
2.0 Data C	ompleteness and Deliverable	<u>s</u>	
2.1	Have any missing deliverab added to the data package?		d and
NOTE:	The lab is required to substantially analyses, for each fraction sample and one dilution, or dilution analyzed and one	n. (i.e., the or the most conce	riginal ntrated
ACTIO	N: Contact the TOPO to obtain resubmittal of any missing the lab. If lab cannot perfect on the review of a Contract Problems/Non-contract Assessment.	ng deliverables provide them, no the package in t	from te the he
2.2	Was CLASS CCS checklist ind	cluded with pack	age?

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YES NO N/A

	2.3	Report	nere any discrepancies between the Traffic s/Chain-of-Custody Records, Sampling Report ample Tags?	 .	г <u>ү</u>	
	ACTIO	or r	res, contact the TOPO to obtain an explanation resubmittal of any missing deliverables from laboratory.	on		
3.0	Cover	Letter	SDG Narrative			
	3.1	Is the	Narrative or Cover Letter Present?	11.		
	3.2	contai (see S EPA sa docume shipme	se number, SDG number and contract number ned in the SDG Narrative or cover letter OW, Exhibit B, section 2.6.1)? mple numbers in the SDG, detailed ntation of any quality control, sample, nt, and/or analytical problems encountered cessing the samples? Corrective action			
	3.3	Does to	he narrative contain the following ation:	,		
		VOA:	description of trap and columns used for sample analyses?	177 -		
		VOA:	a NOTE stating whether Volatile low level soil samples prepared according to the modified SW-846 Method 5035? (p. B-9/VOA, sec 2.6.1)			
		VOA:	any discrepancies between low level soil weights determined in the field and in the Laboratory? (p. B-10/VOA, sec. 2.6.1)	1		
		BNA:	description of columns used for sample analyses?	<u></u>		_/
		Pest:	description of columns used for sample analyses?			
	NOTE:	As pa	er section 6.23.3.1 SOW/p. D-11/Pest,			

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YES NO N/A

	Packed columns are not permitted.	
3.4	Does the narrative, VOA and BNA sections, contain a list of all TIC's identified as alkanes and their estimated concentrations?	п
3.5	Is the temperature indicator bottle present in the cooler? If not, did the Laboratory document in the SDG Narrative the alternative technique used to determine the cooler temperature? (Exhibit A/p. A-5 sec. 4.2.1.2.3.3)	<u>1</u>
3.6	Does the narrative contain a record of all cooler temperatures? If the temperature of a cooler was exceeded, > 10° C, the lab must list by fraction and sample number, all affected samples.	1
3.7	Does the Narrative contain a list of sample reanalyses submitted? Did the Lab distinguish whether the reanalysis is billable, and if so why?	ц <u> </u>
3.8	Does the narrative contain a list of the pH values determined for each water sample submitted for volatile analysis (SOW Exhibit B, section 2.6.1.2)?	<u></u>
3 . 9	Does the Case Narrative contain the statement, "verbatim", as required in Section B of the SOW?	<u> </u>
ACTIO	N: If "No", to any question in this section, contact the TOPO to obtain all necessary resubmittals. If information is not available, document in the Data Assessment under Contract Problems/Non-Compliance section.	

4.0 Data Validation Checklist

- 4.1 Check the package for the following discrepancies:
 - a. Is the package paginated in ascending order starting from the SDG narrative?

7/2	
1/1.	

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_ .		YES NO N/
	b. Are all forms and copies legible?	<u> </u>
	c. Is each fraction assembled in the order set forth in the SOW?	T
	The following checklist is divided into three parts. Part A is for any VOA analyses, Part B is for BNA's and Part C is Pesticide/PCB's.	
	Does this package contain:	
	VOA Data?	
	BNA Data?	
	Pesticide/PCB data?	/

ACTION: Complete corresponding parts of checklist.

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YES NO N/A

PART A: VOA ANALYSES

1.0 Sample Conditions/Problems

- 1.1 Do the Traffic Reports/Chain-of-Custody Records, Sampling Report or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?
- ACTION: If any sample analyzed as a soil, other than TCLP, contains 50% 90% water, all data shall be flagged as estimated (J). If a soil sample other than TCLP contains more than 90% water, then qualify positive results "J", and nondetects "R".
- ACTION: If samples were not iced or the ice was melted upon arrival at the laboratory and the cooler temperature was elevated (> 10° C), then flag all positive results with a "J" and all nondetects "UJ".
- ACTION: If both VOA vials for a sample have air bubbles or the VOA vial analyzed had air bubbles, flag all positive results "J" and all non-detects "R".
- ACTION: The smallest soil size permitted is 0.5g. If any soil sample is smaller than 0.5g, document in the Data Assessment under Contract Problems/Non-Compliance.

2.0 Holding Times

2.1 Have any VOA technical holding times, determined from date of collection to date of analysis, been exceeded?

Technical Holding Times for AQUEOUS AND SOIL NON-ENCORE SAMPLES: If unpreserved, aqueous samples, maintained at 4°C for aromatic hydrocarbons analysis must be analyzed within 7 days of collection. If

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YES NO N/A

preserved with HCl (pH < 2) and stored at 4° C, then aqueous samples must be analyzed within 14 days of collection. If uncertain about preservation, contact sampler to determine whether or not samples were preserved. The holding time for non-Encore soils is 10 days from date of collection.

ACTION: If technical holding times for aqueous samples and soil non-Encore samples are exceeded, flag all positive results as estimated "J" and sample quantitation limits as estimated "UJ", and document in the Data Assessment that holding times were exceeded. If analyses were done more than 14 days beyond holding time, either on the first analysis or upon re-analysis, the reviewer must use professional judgement to determine the reliability of the data and the effects of additional storage on the sample results. At a minimum, all results must be qualified "J", but the reviewer may determine that non-detect data are unusable "R". If holding times are exceeded by more than 28 days, all non detect data are unusable "R".

NOTE: Contractual Holding Times: Analysis of water and Non-Encore soil samples must be completed within 10 days of Validated Time of Sample Receipt (VTSR). This requirement does not apply to Performance Evaluation (PE) samples.

Technical Holding Times for soils Encore samples:

- i) If sample was preserved < 2 days of VTSR:
 - 1. and analyzed ≤ 14 days from DoC, NO action needed.
 - 2. and analyzed > 14 days from DoC, qualify positive results
 "J" and non-detects "UJ".
 - 3. and analyzed > 28 days from DoC, qualify positive results "J" and non-detects "R".
- ii) If sample was NOT preserved, or preserved > 2 days of VTSR
 - and analyzed ≤ 7 days from DoC, No action needed.

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YES NO N/A

- and analyzed > 7 days from DoC, qualify AROMATIC analytes only, both positive and non-detects, as estimated "J".
- 3. and analyzed > 10 days from DoC, qualify ALL positive analytes "J" and ALL non-detects as "UJ".
- 4. and analyzed \geq 20 days from DoC, qualify positive results "J" and non-detects "R".

Note: CONTRACT holding times for soil Encore samples are:

- 1. Samples must be preserved within two (2) days of VTSR and must be analyzed within ten (10) days of VTSR.
- 2. Samples NOT preserved within two (2) days of VTSR must be analyzed within two (2) days of VTSR.

ACTION: If contractual holding times are exceeded, document in the Data Assessment.

NOTE: The data reviewer must note in the Data Assessment whether or not technical and contractual holding times were met.

Table of Holding Time Violations

(See Chain-of-Custody Records)

Sample ID	Sample Matrix	Was Sample Preserved?	Date Sampled	Date Lab Received	Date Analyzed
	_				
<u> </u>					
	_				
•					

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Date: March, 2001 SOP HW-6, Rev. 12

> YES NO N/A

3.0	System	Monitoring	Compound	(SMC)	Recovery	(Form	II)
,				7 00000	**COO.C*	\ <u> </u>	

3.0	System	Monitoring Compound (SMC) Recovery (Form II)		
	3.1	Are the VOA SMC Recovery Summaries (Form II) present for each of the following matrices:	/	
		a. Low Water?	17 — —	_
		b. Low Soil?	<u> </u>	<i>!</i> -
		c. Med Soil?	п — <u> </u>	_
	3.2	Are all the VOA samples listed on the appropriate System Monitoring Compound Recovery Summary for each of the following matrices:	,	
		a. Low Water?	ц — —	- 2
		b. Low Soil?	<u> </u>	<i>f</i>
		c. Med Soil?	<u></u>	_
	ACTION	I: Contact the TOPO to obtain an explanation or resubmittal of any missing deliverables from the laboratory. If missing deliverables are unavailable, document the effect in the Data Assessment.	,	
	3.3	Were outliers marked correctly with an asterisk?	r 4	
		I: Circle all outliers with red <u>pencil</u> .		
	3.4	Was one or more VOA system monitoring compound recovery outside of contract specifications for any sample or method blank?	_ 14 /	·
		If yes, were samples re-analyzed?	<u> </u>	
		Were method blanks re-analyzed?	<u> </u>	-

ACTION: If recoveries are 2 10%, but 1 or more compounds fail to meet SOW specifications:

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YES NO N/A

- 1. All positive results are qualified as estimated "J".
- 2. Flag all non-detects as estimated detection limits "UJ" where recovery is less than the lower acceptance limit.
- 3. If SMC recoveries are above allowable levels, qualify positive results "J" and do not qualify non-detects.

ACTION: If any system monitoring compound recovery is < 10%:

- 1. Flag all positive results as estimated "J".
- 2. Flag all non-detects as unusable "R".

Professional judgement should be used to qualify data that only have method blank SMC recoveries out of specification in both original and re-analyses. Check the internal standard areas.

NOTE: Contractual requirements state that if any SMC fails the acceptance criteria, the sample must be re-analyzed. If the affected sample was not re-analyzed, document in the Data Assessment under Contract Problems/Non-Compliance.

NOTE: The laboratory must submit the following data:

- 1. If SMC recoveries and internal standard responses meet the acceptance criteria in the reanalyzed sample, then the laboratory must submit only the re-analysis.
- 2. If an SMC recovery and/or internal standard response fails to meet the acceptance criteria upon re-analysis, then submit data from both analyses.

(Refer to section 11.4.3.2, page D-45/VOA of the

US EPA Region II

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Met	hod: CI	P/SOW OLM04.2	SOP HV	7-6,	Rev.	12
			-	YES	NO	N/.
		SOW for more information.)				
	3.5	Are there any transcription/calculation error between raw data and Form II? AS PER CADRE AND CCS	s		1/1	
	ACTIO	N: If large errors exist, contact the TOPO to obtain an explanation or resubmittal of corrected deliverables from the laboratory. Make any necessary corrections and note the effect in the Data Assessment.				
4.0	Matrix	Spikes (Form III)				
	4.1	Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present?	-	ئے		
	4.2	Were matrix spikes analyzed at the required frequency for each of the following matrices:		1		
		a. Low Water?				
		b. Low Soil?	اـ	_1		
		c. Med Soil?	<u>ا۔</u>	1_		_/
	ACTIO	N: If any matrix spike data are missing, take t action specified in section 3.2 above.	he			
	ACTION	N: No action is taken based upon MS/MSD data alone. However, using informed professiona judgement, the MS/MSD results may be used in conjunction with other QC criteria to determ the need for qualification of the data.	•			
	ACTIO	N: Circle all outliers with red pencil.		,		
5.0	Blanks	(Form IV)				
	5.1	Is the Method Blank Summary (Form IV) present?	1	<u>_{1</u>		

Frequency of Analysis: for the analysis of VOA TCL compounds, has a reagent/method blank been analyzed during every 12-hour time period on each

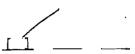
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YES NO N/A

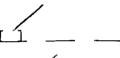
GC/MS system, before any samples, and for each matrix? (water, low soil or medium soil)



5.3 Has a VOA method blank been analyzed at least once every twelve hours for each matrix/concentration and GC/MS system used?



5.4 Was a VOA instrument blank analyzed after each sample/dilution which contained a target compound that exceeded the initial calibration range?



5.5 Was a VOA storage blank analyzed at the end of all samples for each SDG in a case?



ACTION: If any method/instrument blank data are missing, contact the TOPO to obtain any missing deliverables from the laboratory. If method blank data are not available, reject "R" all associated positive data. However, using professional judgement, the data reviewer may substitute field blank or trip blank data for missing method blank data.

If the instrument blank was not analyzed after a sample with high concentration of reported values, inspect the chromatogram of the sample analyzed immediately after this analysis for possible carryover. Use professional judgement to determine if any contamination occurred and qualify analyte(s) accordingly.

If storage blank data is missing, contact the TOPO to obtain any missing deliverables from the laboratory. If unavailable, note in the Contract Problems/Non-Compliance section of the Data Assessment.

Note: A storage blank shall be analyzed and reported as a water sample unless the SDG contains only soil samples. Then, the storage blank may be analyzed and reported as a soil sample. (p. D-49/VOA sec. 12.1.3.5)

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YES NO N/A

5.6 The validator should verify that the correct identification scheme for the EPA Blank samples were used. See page <u>B-30</u>, section 3.3.7.3 of the SOW for further information.

Was the correct identification scheme used for all VOA blanks?

- ACTION: Contact the TOPO to obtain missing deliverables from the lab, or make the required corrections on the forms. Document in the Data Assessment under Contract Problems/Non-compliance if corrections were made by the validator.
- 5.7 Chromatography: review the blank raw datachromatograms (RICs), quant. reports or data system printouts and spectra. Is the chromatographic performance (baseline stability) for each instrument acceptable for VOA's?



- ACTION: Use professional judgement to determine the effect on the data.
- 5.8 Are all detected hits for target compounds in method, instrument and storage blanks less than the CRQL for that analyte?



Exception: Acetone and 2-butanone must be less than 5 times the CRQL, and methylene chloride and Cyclohexane must be less than 2.5 times its CRQL. (p. D-50/VOA sec. 12.1.4.6)

ACTION: If no, an explanation and laboratory's corrective actions must be addressed in the case narrative. If the narrative contains no explanation, then make a note in the Contract Problems/Non-Compliance section of the Data Assessment.

6.0 Contamination

NOTE: "Water blanks", "drill blanks", and "distilled water blanks" are validated like any other sample, and are <u>not</u> used to qualify data. Do not

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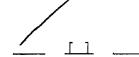
Date: March, 2001 SOP HW-6, Rev. 12

> N/A YES NO

confuse them with the other QC blanks discussed below.

Do any method/instrument/reagent/storage blanks 6.1 have positive results (TCL and/or TIC) for VOA's?

- NOTE: When applied as directed in the table below, the contaminant concentration in these blanks are multiplied by the sample dilution factor and corrected for *moisture when necessary.
- NOTE: A contaminated instrument blank is not allowable under this SOW. The instrument blank must meet the technical acceptance criteria for blank analyses (sec. 12.1.4). See page D-48/VOA, section 12.1.2.4 for additional information. Document in the Data Assessment under Contract Problems/Non-Compliance if contaminated instrument blank was submitted.
- Do any field/trip/rinse blanks have positive VOA 6.2 results (TCL and/or TIC)?



- ACTION: Prepare a list of the samples associated with each of the contaminated blanks. (Attach a separate sheet.)
- NOTE: All field blank results associated with a particular group of samples (may exceed one per case) must be used to qualify data. Trip blanks are used to qualify only those samples with which they were shipped and are not required for non-aqueous matrices. Blanks may not be qualified because of contamination in another blank. Field Blanks & Trip Blanks must be qualified for system monitoring compound, instrument performance criteria, spectral or calibration, and Internal standard QC problems.
- ACTION: Follow the directions in the table below to qualify TCL results due to contamination. Use the largest value from all the associated blanks. If any blanks are grossly contaminated, all associated data should be

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YES NO N/A

qualified as unusable "R".

NOTE: Analytes qualified "U" for blank contamination are till considered as "hits" when qualifying for calibration criteria.

ACTION: For TIC compounds, if the concentration in the sample is less than five times the concentration in the most contaminated associated blank, flag the sample data "R".

For: TCL COMPON	Flag sample result with a "U" when:	Report CRQL & qualify "U" when:	No qualification is needed when:
Methylene Chloride Acetone Toluene 2-Butanone Cyclohexar		Sample conc. is < CRQL and ≤ 10× blank value.	Sample conc. is > CRQL and > 10x blank value.
Other Conta- minants	Sample conc. is > CRQL, but ≤ 5× blank value.	Sample conc. is < CRQL and < 5x blank value.	Sample conc. is > CRQL and > 5x blank value.
6.3	Are there field/rin	se/equipment blanks as	ssociated

6.3 Are there field/rinse/equipment blanks associated with every sample?

ACTION: For low level samples, note in the Data Assessment that there is no associated field/rinse/equipment blank. For samples with high concentrations of suspected blank contaminants, use professional judgement to qualify these values and make a note in the Data Assessment.

Exception: samples taken from a drinking water tap do not have associated field blanks.

7.0 GC/MS Instrument Performance Check (Form V)

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		YES NO	IN / A
7.1	Are the GC/MS Instrument Performance Check Forms (Form V) present for Bromofluorobenzene (BFB)?	<u>11</u> _	
7.2	Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the BFB provided for each twelve hour shift?		
7.3	Is the mass spectrum of BFB acquired according to sec. 9.2.4.1 D-23/VOA?	<u></u>	
Note:	Sec. 9.2.4.1 states that "the mass spectrum of BFB MUST be acquired in the following manner. Three scans (the peak apex scan and the scans immediately preceding and following the apex) are acquired and averaged. Background subtraction is required, and MUST be accomplished using a single scan no more than 20 scans prior to the elution of BFB. DO NOT background subtract part of the BFB peak." See Attachment 2 for BFB criteria.		
Action	n: If not, reject "R" all samples associated with that particular BFB.		
7.4	Has an instrument performance check been analyzed for every analytical sequence on each instrument?	11_	
ACTION	I: List date, time, instrument ID, and sample numbers for which associated GC/MS tuning data are unavailable.		
DATE	TIME INSTRUMENT SAMPLE NUMBERS		
		·	

ACTION: Notify the TOPO to obtain missing data, if possible. If the lab cannot provide the missing data, reject, "R", all data generated outside an acceptable twelve hour calibration interval.

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YES NO N/A 7.5 Have the ion abundances been normalized to m/z 95 as specified in Exhibit D, page D-56/VOA? AS PER CADLE AND CCS NOTE: All ion abundance ratios must be normalized to m/z 95, the nominal base peak, even though the ion abundance of m/z 174 may be up to 120% that of m/z 95. ACTION: If mass assignment is in error, qualify all associated data as unusable "R". Have the ion abundance criteria been met for each 7.6 instrument used? As fer CAOLE AND CCS ACTION: List all data which do not meet ion abundance criteria (attach a separate sheet). ACTION: If ion abundance criteria are not met, the Region II TPO must be notified. 7.7 Are there any transcription/calculation errors between mass lists and Form Vs? (Check at least two values, but if errors are found check more.)
As FER CAPPE AND CCS Is the number of significant figures for the 7.8 reported relative abundances consistent with the number given for each ion in the ion abundance criteria column? ACTION: If large errors exist, take action as specified in section 3.5 above. Are the spectra of the mass calibration compound 7.9 acceptable? ACTION: Use professional judgement to determine whether associated data should be accepted, qualified,

8.0 Target Compound List (TCL) Analytes (FORM I VOA)

or rejected.

8.1 Are the Organic Analysis Data Sheets (Form I VOA) present with required header information on each page, for each of the following:

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		YES NO	N/A
	describe and/an functions of oppropriate?	[]	
	a. Samples and/or fractions as appropriate?		
	b. Matrix spikes and matrix spike duplicates?	<u> </u>	
	c. Blanks?	<u> </u>	
8.2	Are the VOA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (quant. reports) included in the sample package for each of the following:		. •
	a. Samples and/or fractions as appropriate?		
	b. Matrix spikes and matrix spike duplicates (mass spectra not required)?	Ĺ,	
	c. Blanks?	<u> </u>	
ACTIO	ON: If any data are missing, take action specified in 3.2 above.		
3 . 3	Is chromatographic performance acceptable with respect to:		
	a. Baseline stability?	<u> </u>	·
	b. Resolution?	<u></u>	
	c. Peak shape?	<u> 1</u>	
	d. Full-scale graph (attenuation)?	<u> </u>	
	e. Other:?	<u> </u>	
*CTIC	ON: Use professional judgement to determine the acceptability of the data.		
8.4	Are the lab-generated standard mass spectra of the identified VOA compounds present for each sample? AS FOR CADE AND CCS	<u>1</u>	
ልሮሞፕር	ON: If any mass spectra are missing, take action as	,	

specified in 3.2 above. If the lab does not

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YES NO N/A

generate its own standard spectra, document in the Contract Problems/Non-compliance section of the Data Assessment.

- 18.5 Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration? As FER CAPPE AND CCS
- ц —
- 8.6 Are all ions present in the standard mass spectrum at a relative intensity greater than 10% also present in the sample mass spectrum?

 As fer capte And coi.
- 8.7 Do sample and standard relative ion intensities agree within ±20%? AS FER CADRE AND CCS.

ACTION: Use professional judgement to determine acceptability of data. If it is determined that incorrect identifications were made, all such data should be rejected "R", flagged "N" (presumptive evidence of the presence of the compound) or changed to not detected "U" at the calculated detection limit. In order to be positively identified, the data must comply with the criteria listed in 8.5, 8.6, and 8.7.

ACTION: When sample carry-over is suspected, use professional judgement determine if instrument cross-contamination has affected positive compound identifications.

9.0 Tentatively Identified Compounds (TIC)

- 9.1 Are all Tentatively Identified Compound Forms
 (Form I Part B) present; and do listed TIC's
 include scan number or retention time, estimated
 concentration and "JN" qualifier?
- ____
- 9.2 Are the mass spectra for the TIC's and associated "best match" spectra included in the sample package for each of the following:

 As fel CARLE AND CCS

a. Samples and/or fractions as appropriate?

b. Blanks?

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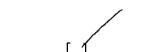
YES NO N/A

c. Are Alkanes listed in/or part of the Case Narrative? 11___

ACTION: If any TIC data are missing, take action specified in 3.2 above.

ACTION: Add "JN" qualifier to all chemically named TIC's, if missing.

9.3 Are any TCL compounds (from any fraction including all PCB congeners) listed as TIC compounds? (Example: 1,2- dimethylbenzene is xylene, a VOA TCL analyte, and should not be reported as a TIC.)



ACTION: Flag with "R" any TCL compound listed as a TIC.

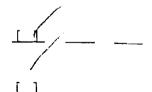
9.4 Are any TIC's reported earlier than 30 sec before the first purgeable compound, or three (3) min. after the last purgeable compound listed in Exhibit C (Volatiles)? AS AER CADLE AND CLS.



ACTION: Flag with "R" any TIC compound reported. (p. D38-VOA, sec. 11.1.2.2)

9.5 Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?

AS FER CAPRE AND CCS



9.6 Do TIC and "best match" standard relative ion intensities agree within ±20%?
AS FER CADRE AND CCS

ACTION: Use professional judgement to determine the acceptability of TIC identifications. If it is determined an incorrect identification was made, change the identification to "unknown," or to some less specific identification as appropriate. (Example: "C3 substituted benzene.")

Also, when a compound is not found in any blank, but is detected in a sample and is a suspected artifact of a common laboratory contaminant, the result should be qualified as

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YES NO N/A

unusable "R". (E.g., Common Lab Contaminants: CO_2 (M/E 44), Siloxanes (M/E 73) hexane, aldol condensation products, solvent preservatives, and related by-products.

9.7 Are TIC's with responses < 10% of the internal standard (as determined by inspection of the peak areas or height) reported? #\$ FEP CAPLE AND CLS

ACTION: If yes, cross out questionable TIC's.

10.0 Compound Quantitation and Reported Detection Limits

- 10.1 Are there any transcription/calculation errors in Form I results? (Check at least two positive values. Verify that the correct internal standards, quantitation ions, and RRF were used to calculate Form I results.) AS PER CAPPE AND CLS
- 10.2 Are the CRQL's adjusted to reflect sample dilutions and, for soils, sample moisture?

 AS PET CAPLE AND CCS

ACTION: If errors are large, take action as specified in section 3.2 above.

ACTION: When a sample is analyzed at more than one dilution, the lowest CRQL's are used (unless a QC exceedance dictates the use of the higher CRQL data from the diluted sample). Replace concentrations that exceeded the calibration range in the original analysis by crossing out the "E" and its corresponding value on the original Form I and substituting the data from the diluted sample. Specify which Form I is to be used, then draw a red "X" across the entire page of all Form Is not to be used, including any in the data summary package.

11.0 Standards_Data (GC/MS)

11.1 Are the Reconstructed Ion Chromatograms, and data system printouts (quant. reports) present for each initial and continuing calibration?

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YES NO N/A

ACTION: If any calibration standard data are missing, take action specified in 3.2 above.

12.0 GC/MS Initial Calibration (Form VI)

12.1 Are the Initial Calibration Forms (Form VI) present and complete at concentrations of 10, 20, 50, 100, 200ng for separate calibrations of low water/med soils (unheated purge) and low soils (heated purge)?



ACTION: If any calibration standard forms are missing, take action specified in 3.2 above.

12.2 Were all low level soil standards, blanks and samples analyzed by heated purge?



ACTION: If low level soil samples were not heated during purge, qualify positive hits "J" (estimated) and non-detects "R".

12.3 Are the % relative standard deviation (%RSD) values for VOA's ≤ 30% over the concentration range of the calibration?



NOTE: Although 23 VOA compounds have a contractual minimum RRF and no maximum %RSD, the technical acceptance criteria are the same for all analytes.

ACTION: Circle all outliers with red pencil.

ACTION: If %RSD is > 30.0%, qualify associated positive results for that analyte "J" (estimated). Do not qualify non-detects. When %RSD is > 90%, flag all non-detects for that analyte "R" (unusable) and positive hits "J".

NOTE: Analytes previously qualified "U" for blank contamination are still considered as "hits" when qualifying for initial calibration criteria.

12.4 Are any average RRFs < 0.05?

/	•
[/]	

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YES NO N/A

ACTION: Circle all outliers with red pencil.

ACTION: If the average RRF is < 0.05, then qualify associated non-detects with an "R" and flag associated positive data as estimated "J".

NOTE: Contract Requirement: The SOW allows up to two of the required analytes to fail contractual %RSD or RRF criteria, provided the %RSD is ≤ 40% and RRF is ≥ 0.010. (See Table 5, page D-61/VOA and analytes marked with a "*" on Form VI for required analytes and contractual criteria.) Technical criteria, however, are the same for all analytes.

ACTION: If more than two analytes failed %RSD or RRF criteria, document in the Data Assessment under Contract Problems/Non-Compliance.

12.5 Are there any transcription/calculation errors in the reporting of average relative response factors (RRF) or %RSD? (Check at least 2 values, but if errors are found, check more.)

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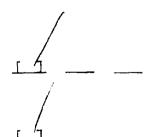
__ _____

ACTION: Circle errors with red pencil.

ACTION: If errors are large, contact the TOPO to obtain an explanation/resubmittal from the lab, document in the Data Assessment under Contract Problems/Non-Compliance.

13.0 GC/MS Continuing Calibration (Form VII)

13.1 Are the Continuing Calibration Forms (Form VII) present and complete for separate calibration of low water/med soil and low soil samples?



13.2 Has a continuing calibration standard been analyzed for every twelve hours of sample analysis per instrument?

ACTION: If any forms are missing or no continuing calibration standard has been analyzed within twelve hours of every sample analysis, contact

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YES NO N/A

the TOPO to request an explanation/resubmittal from the lab. If continuing calibration data are not available, flag all associated sample data as unusable "R".

ACTION: List below all sample(s) that were not analyzed within twelve hours of the previous continuing calibration.

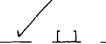
13.3 Do any volatile compounds have a percent difference (%D) between the initial and continuing RRF which exceeds the ±25% criteria?

NOTE: Although 23 VOA compounds have a contractual minimum RRF and no maximum %D, the technical acceptance criteria are the same for all analytes.

ACTION: Circle all outliers with red pencil.

ACTION: Qualify both positive results and non-detects for the outlier compound(s) as estimated. When %D is > 90%, qualify all non-detects for that analyte unusable (R) and positive results estimated (J).

13.4 Are any continuing calibration RRFs < 0.05?



ACTION: Circle all outliers with red pencil.

ACTION: If the RRF is < 0.05, qualify the associated non-detects as unusable "R" and the associated positive values "J".

NOTE: Contract Requirement: The SOW allows up to two of the required analytes to fail contractual %D and RRF criteria, provided that the %D is \leq 40% and the RRF is \geq 0.010. (See Table 5 pg. D-61/VOA or

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YES NO N/A

analytes marked with a "*" on Form VI for required analytes.) Technical criteria, however, are the same for all analytes.

ACTION: If more than two analytes failed %D and RRF, criteria document in the Data Assessment under contract Problems/Non-Compliance.

13.5 Are there any transcription/calculation errors in the reporting of RRF or %D between initial and continuing RRFs? (Check at least two values, but if errors are found, check more.)

AS PER CAPPE AND CCS FEFORT.

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ACTION: Circle errors with red pencil.

ACTION: If errors are large, contact the TOPO to obtain an explanation/resubmittal from the lab, document in the Data Assessment under Contract Problems/Non-Compliance.

14.0 Internal Standard (Form VIII)

14.1 Are the internal standard areas (Form VIII) of every sample and blank within the upper and lower limits (-50% to +100%) for each continuing calibration? As let CADLE AND CCS.

If no, was the sample re-analyzed?

ACTION: 1. Circle all outliers with red pencil.

2. List all the outliers below.

Sample #	Internal Std.	Area	Lower/Upper Limit
			/
			/
		<u></u>	

(Attach additional sheets if necessary, or attach copies of Form VIIIs.)

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YES NO N/A

ACTION: If any sample was not re-analyzed, document in the Data Assessment under Contract Problems/Non-Compliance.

- ACTION: 1. If the internal standard area count is outside the upper or lower limit, flag with "J" all positive results quantitated with this internal standard.
 - 2. Do not qualify non-detects when associated IS area counts are > 100%.
 - 3. If the IS area in the sample is below the "lower limit," < 50%, qualify all analytes associated with that IS estimated, "J". If the area counts are extremely low, < 25% of the area in the 12 hour standard, or if performance exhibits a major abrupt drop- off, flag all associated non-detects as unusable, "R", and positive hits estimated, "J".
- 14.2 Are the retention times of the internal standards within 30 seconds of the associated calibration standard? As fer CABBRE and CCS

ACTION: Professional judgement should be used to qualify data if the retention times differ by more than 30 seconds.

NOTE: Contractual requirements state that if any internal standard fails the acceptance criteria, the sample must be re-analyzed. If the affected sample was not re-analyzed, document in the Data Assessment under Contract Problems/Non-Compliance.

15.0 Field Duplicates

15.1 Were any field duplicates submitted for VOA analysis?

17 — -

ACTION: Compare the reported results for field duplicates and calculate the relative percent difference.

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YES NO N/A

ACTION: Any gross variation between duplicate results must be addressed in the reviewer narrative. However, if large differences exist, identification of field duplicates should be confirmed by contacting the sampler.

Functional Guidelines for Evaluating Organic Analysis

CASE No.: 32512

SDG No.: B17T8

LABORATORY: CEIMIC

SITE: STANTON CLEANERS

DATA ASSESSMENT

The current SOP HW-6 (Revision 12) March 2001, USEPA Region II Data Validation SOP for Statement of Work OLM04.3 for evaluating organic data have been applied.

All data are valid and acceptable except those analytes rejected "R" (unusable). Due to the detection of QC problems, some analytes may have the "J" (estimated), "N" (presumptive evidence for the presence of the material, "U" (non-detect) or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Andy banaqueline

Signature: Andy Panayiotou Date: March 15, 2004

Verified By: Janus Sheigh Date: 03/16/2004_

SDG#B17T8

HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable. "R". if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time.

No problems found for this qualification.

2. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

DC-4 The following volatile samples have one or more system monitoring compound recovery values below the lower limit of the criteria window.

Hits are qualified "J" and non-detects are qualified "UJ".

B17T8

3. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

No qualification is performed based on MS/MSD recovery.

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-

contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common contaminants), the analytes are qualified as non-detects,

"U". The following analytes in the sample shown were qualified with "U" for these reasons:

A) Method blank contamination:

DC-6 The following volatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the associated method blank concentration.

Hits are qualified "U" and non-detects are not flagged.

Methylene Chloride

B17T9, B17W0, B17W0MS, B17W0MSD, B17W1, B17X5, B17X7, B17X8, B17Y0, B17Z4, B17T8DL

DC-13 The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL.

Hits are qualified "U" and non-detects are not flagged.

Methylene Chloride

B17T8, B17W2, B17W3, B17X1, B17X2, B17X6, B17Z4DL

- B) Field or rinse blank contamination:
- DC-x The following volatile samples have analyte concentrations reported **below** the CRQL and less than or equal to FIVE times (5X) the associated field blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Methyl tert-Butyl Ether B17W2, B17Z4DL, B17W0MS

Tetrachloroethene

B17W2, B17Y0, B17X6

DC-x The following volatile samples have analyte concentrations reported **above** the CRQL and less than or equal to FIVE times (5X) the associated field blank concentration. Hits are qualified "U" and non-detects are not flagged.

Tetrachloroethene

B17W2, B17T9

Methyl tert-Butyl Ether

B17Z4

C) Trip blank contamination for VOA aqueous samples:

No additional qualifications based on trip blank contamination.

D) Storage Blank associated with VOA samples only

No additional qualifications based on storage blank contamination.

E) Tics "R" rejected:

The following Tic's have been rejected "R". They have been identified as Siloxane peaks, and/or Lab Artifacts.

B17T8, 7T8DL, 7T9, 7W0, 7W1, 7W2, 7X1, 7X2, 7X5, 7X6, 7X7, 7X8 B17Y0, 7Z4, 7Z4DL Unknown Siloxane(s)

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is (BFB) Bromofluorobenzene and for semi-volatiles Decafluorotriphenyl-phosphine (DFTPP).

If the mass calibration is in error, all associated data will be classified as unusable "R".

No problems found for this qualification.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for the Target Compound List (TCL) must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound will be rejected "R".

DC-9 The following volatile samples are associated with a continuing calibration relative response factor (RRF50) outside primary criteria.

Hits are flagged "J" and non-detects are qualified "R".

1,2-Dibromo-3-chloropropane B17T8, B17W3, B17X1, B17X2, B17Y5, VBLKOB

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the

response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be < 30% and %D must be < 25%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detects data may be qualified "R".

For the PEST/PCB fraction, if %RSD exceeds 20% for all analytes except for the two surrogates (which must not exceed 30% RSD), qualify all associated positive results "J" and non-detects "UJ".

The following analytes in the sample shown were qualified for %RSD and %D:

DC-8 The following volatile samples are associated with a continuing percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Chloromethane

B17T8, B17W2, B17W3, B17X1, B17X2, B17X5, B17Y0, B17Y5, B17Y8, B17Y9, B17Z4DL, VBLKOB, VBLKOD, VHBLK01

Vinvl Chloride

B17T8, B17W2, B17W3, B17X1, B17X2, B17X5, B17Y0, B17Y5, B17Y8, B17Y9, B17Z4DL, VBLKOB, VBLKOD, VHBLK01

Acetone

B17T8DL, B17T9, B17W0, B17W0MS, B17W0MSD, B17W1, B17X6, B17X7, B17X8, B17Y6, B17Y7, B17Z4, VBLKOC

trans-1.2-Dichloroethane

B17W2, B17X5, B17Y0, B17Y8, B17Y9, B17Z4DL, VBLKOD, VHBLK01

2-Butanone

B17T8, B17T8DL, B17T9, B17W0, B17W0MS, B17W0MSD, B17W1, B17W2, B17W3, B17X1, B17X2, B17X5, B17X6, B17X7, B17X8, B17Y0, B17Y5, B17Y6, B17Y7, B17Y8, B17Y9, B17Z4, B17Z4DL, VBLKOB, VBLKOC, VBLKOD, VHBLK01

2-Hexanone

B17T8DL, B17T9, B17W0, B17W0MS, B17W0MSD, B17W1, B17X6, B17X7, B17X8, B17Y6, B17Y7, B17Z4, VBLKOC

1,2-Dibromo-3-chloropropane

B17W2, B17X5, B17Y0, B17Y8, B17Y9, B17Z4DL, VBLKOD, VHBLK01

8. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than ± 30 seconds from the associated continuing

calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, the reviewer will use professional judgement to determine either partial or total rejection of the data for that sample fraction.

No problems found for this qualification.

- 9. COMPOUND IDENTIFICATION:
- A) Volatile and Semi-Volatile Fractions:

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within \pm 0.06 RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

B) Pesticide Fraction:

The retention times of reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10ng/ml in the final sample extract.

Not Applicable.

- 10. CONTRACT PROBLEMS NON-COMPLIANCE:
- 11. FIELD DOCUMENTATION:
- 12. OTHER PROBLEMS
- 13. This package contains reextractions, reanalyses or dilutions. Upon reviewing the QA results, the following Form 1(s) are identified NOT to be used.

B17T8DL, B17Z4DL

1. SDG NARRATIVE

RECEIVED FEB 0 5 2004

SDG Narrative

HAZ. WASTE SUPPORT SEC.

The enclosed data package is in response to USEPA, Region II, Case No.32512, and SDG No. B17T8, Contract No. 68-W-03-018. Under this SDG there are 21VOA samples received at Ceimic Corporation on January 16 and 17, 2004.

EPA ID:	CEIMIC ID:	Analysis
B17Y5	040025-01	VOA
B17T8	040025-02	VOA
B17T9	040025-03	VOA
B17W0	040025-04	VOA
B17W0MS	040025-04MS	VOA
B17W0MSD	040025-04MSD	VOA
B17W1	040025-05	VOA
B17W3	040025-06	VOA
B17X1	040025-07	VOA
·B17X2	040025-08	VOA
B17X6	040025-09	VOA
B17X8	040025-10	VOA
B17Y6	040025-11	VOA
B17Y7	040025-12	VOA
B17Z4	040025-13	VOA
B17W2	040025-14	VOA
B17X5	040025-15	VOA
B17X7	040025-16	VOA
B17Y0	040025-17	VOA
B17Y8	040025-18	VOA
B17Y9	040025-19	VOA

(1) Sample Receipt

Cooler Temperatures upon receipt were $\underline{3}^{\circ}$ C and $\underline{4}^{\circ}$ C.

(2) Instrumentation and Column Identification

The following instruments were used for the analyses:

GC/ECD Analysis

A. VOA

MS15 HP5972 GC/MS, 30m, 0.25mm ID, 1.4 um, DB-624 capillary column. OI trap #10 (8cm Tenax, 8cm silica gel, 8cm carbon molecular sieve)

(3) Sample Information

An "x" qualifier is flagged by Target Thru-put software whenever the data is manually edited. The letters "M" for GC/MS and "FF" for GC are used on the raw data of the quantitation report whenever a manual integration is performed. Manual integrations are performed on GC/MS and GC standards and samples when computer generated integration picks up only a portion of the chromatographic peak, due to software limitations. When manual integrations are required, these integrations are performed using sound defensible professional judgment, in order to report accurate data. Each manual integration is signed and dated, and reviewed by both the lab supervisor and the GC/MS Interpretation Specialist for GC/MS or the Organic Lab Manager for Pest/PCB.

A. VOA Fraction (Method CLP SOW OLM04.3)

The pHs of the water samples were:

Client ID:	Ceimic ID:	pH:
B17T8	040025-02	1
B17T9	040025-03	1
B17W0	040025-04	1
B17WI	040025-05	1
B17W2	040025-14	1
B17W3	040025-06	1
B17X1	040025-07	1
B17X2	040025-08	1
B17X5	040025-15	1
B17X6	040025-09	- 1
B17X7	040025-16	1
B17X8	040025-10	1
B17Y0	040025-07	1
B17Y5	040025-01	1
B17Y6	040025-11	1
B17Y7	040025-12	1
B17Y8	040025-18	1
B17Y9	040025-19	1
B17Z4	040025-13	1

The following samples were re-analyzed at a dilution:

Client ID:	Ceimic ID:	Dilution:
B17T8	040025-02	20:1 (250 μL)
B17Z4	040025-13	20:1 (250 μL)

In the initial 5 mL analysis of B17T8, the on-column amount of tetrachloroethene exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration. Also in this analysis, the recovery of the System

Monitoring Compound (SMC) toluene-d8 failed quality control criteria. The sample was reanalyzed using 250 μ L of raw sample to bring the on-column amount into range. In the re-analysis, the SMC met recovery criteria. We have attributed the failing SMC recovery to the particular matrix of the sample.

Deviations from the SOW

None other than specified above.

End of SDG Narrative

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Irles Bauer

Laboratory Manager

5

SAMPLE DELIVERY GROUP (SDG) TRAFFIC REPORT (TR) COVERSHEET

RECEIVED FEB 0 5 2004 /

Lab Name:	Ceimic Corporation	Lab Code:	CEIMIC	HAZ. WASTE SUPPORT
Case No.:	32512	Bid Lot:	G	
Contract No:	: <u>68-W-03-018</u>	Full Sampl	e Analysis Price:	
,	in SDG: B17T8 mple Number in the first ples received under SDG.)		Sample Receipt Date:	1/16/2004
, ,	in SDG: B17Y9 ample Number in the last ples received under SDG.)		Sample Receipt Date: _	1/17/2004
EPA Sample	Numbers in the SDG (listed in	alphanumeric	order by date received)	
1	. B17T8	11.	B17Y6	
2	2. B17T9	12.	B17Y7	
3	B. B17W0	13.	B17Z4	
4	. B17W1	14.	B17W2	
5	5. B17W3	15.	B17X5	
6	. B17X1	16.	B17X7	
7	. B17X2	17.	B17Y0	
8	. B17X6	18.	B17Y8	
9	. B17X8	19.	B17Y9	
10	. B17Y5	20.		
Note: There a	are a maximum of 20 field sam	ples in an SDC	7 .	
Attach Traffic	Reports to this form in alphan (i.e. The order listed on this		by date received.	

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17T8 Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER Lab Sample ID: 040025-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE157

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec. _____ Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (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

75-71-8	Dichlorodifluoromethane		10	TUI
74-87-3	Chloromethane	 	$-\frac{10}{10}$	U ;
75-01-4	Vinyl Chloride	T	10	Ü
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		10	U
75-35-4	1,1-Dichloroethene		10	Uj
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		10	U
67-64-1	Acetone		10	Ü
75-15-0	Carbon Disulfide		10_	UT
79-20-9	Methyl Acetate		10	U 2
75-09-2	Methylene Chloride	10		JB UI
156-60-5	trans-1,2-Dichloroethene		10_	UJ
1634-04-4	Methyl tert-Butyl Ether		20	1
75-34-3	1,1-Dichloroethane		10	U\$
156-59-2	cis-1,2-Dichloroethene		13	7
78-93-3	2-Butanone		10	UI
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	Ū
110-82-7	Cyclohexane		10	U
56-23-5	Carbon Tetrachloride		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	UJ

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: 32512 SAS No.:

EPA SAMPLE NO.

B17T8 Contract: 68-W-03-018

Lab Name: CEIMIC CORP

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-02

Sample wt/vol:

Lab Code: CEIMIC

5.000 (g/mL) ML

Lab File ID: OE157

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/20/04

GC Column: DB-624

CAS NO.

ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

COMPOUND

Soil Aliquot Volume: ____ (uL)

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

				
79-01-6	Trichloroethene		42	7
108-87-2	Methylcyclohexane		10	U.3
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	<u>י</u> ט
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	Uŧ
79-00-5	1,1,2-Trichloroethane		10	UI
127-18-4	Tetrachloroethene	* 23	20 1 700	
591-78-6			10	UZ
124-48-1	Dibromochloromethane		10	Uı
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
1330-20-7	Xylene (Total)		10	U
100-42-5	Styrene		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U Z
96-12-8	1,2-Dibromo-3-chloropropane		10	- ⊎ - २
120-82-1	1,2,4-Trichlorobenzene		10	UI

* value was translaged from delation rem.

1 F

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO
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B17T8	
21,10	ľ

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER Lab Sample ID: 040025-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0E157

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec. Date Analyzed: 01/20/04

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

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

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

Number TICs found: 1

				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	20.42		JB R
2.				
3.				
4.				
5.				<u> </u>
6. 7.				
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30.				

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17T9

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

SDG No.: B17T8 Lab Code: CEIMIC Case No.: 32512 SAS No.:

Matrix: (soil/water) WATER

Lab Sample ID: 040025-03

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

Lab File ID: OE173

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL)

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

75-71-8	Dichlorodifluoromethane	10	Ū
74-87-3	Chloromethane	10	Ü
75-01-4	Vinyl Chloride	10	U
			+ 0
74-83-9	Bromomethane		
75-00-3	Chloroethane	10	Ū
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	Ū
67-64-1	Acetone	10	07
75-15-0	Carbon Disulfide	10	Ū
79-20-9	Methyl Acetate	10	Ū
75-09-2	Methylene Chloride	12	D U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	Ŭ .
75-34-3	1,1-Dichloroethane	10	U —
156-59-2	cis-1,2-Dichloroethene	10	Ū
78-93-3	2-Butanone	10	UJ
67-66-3	Chloroform	10	Ū
71-55-6	1,1,1-Trichloroethane	10	Ū
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	Ū
107-06-2	1,2-Dichloroethane	10	U

1B VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER Lab Sample ID: 040025-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE173

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec. _____ Date Analyzed: 01/21/04

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

CAS NO.

COMPOUND

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

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

79-01-6 Trichloroethene 10 U 108-87-2 Methylcyclohexane 10 78-87-5 1,2-Dichloropropane 75-27-4 Bromodichloromethane Ū 10 10 U 10061-01-5 cis-1,3-Dichloropropene 10 Ū 108-10-1 4-Methyl-2-Pentanone 10 Ū 108-88-3 10 ΤÏ Toluene 108-88-3 10061-02-6 79-00-5 127-18-4 591-78-6 trans-1,3-Dichloropropene 10 1,1,2-Trichloroethane 10 Tetrachloroethene 2-Hexanone 10 Dibromochloromethane 124-48-1 Ū 106-93-4 1,2-Dibromoethane 10 $\overline{\mathtt{U}}$ Chlorobenzene 10 108-90-7 100-41-4 Ethylbenzene 10 Û 1330-20-7 | Xylene (Total) 10 Ū 10 100-42-5 Styrene Ū 75-25-2 Bromoform 10 Ū 98-82-8 Isopropylbenzene 10 120-82-1 1,2,4-Trichlorobenzene

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA S	SAMPI	LE 1	VO.
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B17T9 Contract: 68-W-03-018

Lab Name: CEIMIC CORP

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-03

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

Lab File ID: OE173

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec. ____

Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (mm)

Number TICs found: 2

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ___ (uL)

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
:=====================================	UNKNOWN SILOXANE	17.61	6-	J 8
2.	UNKNOWN SILOXANE	20.41	1-6-	न र
3.				
4.				
5.				
6				
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28. 29.				·
30.				

FORM I VOA-TIC

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17W0

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-04

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

Lab File ID: OE174

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (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

75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	Ū
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U.T
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	11	⊕ U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	Ū
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	Ū
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
·			

1B VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17W0

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

SDG No.: B17T8

Lab Code: CEIMIC Case No.: 32512 SAS No.:

Matrix: (soil/water) WATER

Lab Sample ID: 040025-04

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

Lab File ID: OE174

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec. _____

Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: __(uL)

Soil Aliquot Volume: ____(uL)

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

79-01-6	Trichloroethene	111111	J
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	Ū
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	Ū
108-10-1	4-Methyl-2-Pentanone	10	Ū
108-88-3	Toluene	10	Ū
10061-02-6	trans-1,3-Dichloropropene	10	Ū
79-00-5	1,1,2-Trichloroethane	10	Ū
127-18-4	Tetrachloroethene	120	
591-78-6	2-Hexanone	10	UI
124-48-1	Dibromochloromethane	10	Ū
106-93-4	1,2-Dibromoethane	10	Ū
108-90-7	Chlorobenzene	10	Ū
100-41-4	Ethylbenzene	10	Ū
1330-20-7	Xylene (Total)	10	Ū
100-42-5	Styrene	10	Ū
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	Ū
79-34-5	1,1,2,2-Tetrachloroethane	10	Ū
541-73-1	1,3-Dichlorobenzene	10	Ū
106-46-7	1,4-Dichlorobenzene	10	Ū
95-50-1	1,2-Dichlorobenzene	10	<u></u> <u></u> <u> </u>
96-12-8	1,2-Dibromo-3-chloropropane	10	Ū
120-82-1	1,2,4-Trichlorobenzene	10	Ū

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lah	Name ·	CEIMIC	C	

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

LOW

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-04

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

Lab File ID: OE174

Level: (low/med)

Date Received: 01/16/04

% Moisture: not dec. _____

Date Analyzed: 01/21/04

GC Column: DB-624

ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

Number TICs found: 2

(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1 556 67 0	1	========		NJ €
1. 556-67-2· 2.	CYCLOTETRASILOXANE, OCTAMETH UNKNOWN SILOXANE	17.61 20.41	10-	
3.	UNANOWN SILOAME	20.41	Τ.θ.	ਰ 🙉
				
5.		-		
6.				
$\frac{6}{7}$.				
8.				
9.		}		
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23.	- 			
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29.				
30.			 _	

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17W1 Contract: 68-W-03-018

Lab Name: CEIMIC CORP

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Lab Sample ID: 040025-05 Matrix: (soil/water) WATER

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE177

Date Received: 01/16/04 Level: (low/med) LOW

% Moisture: not dec. Date Analyzed: 01/21/04

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

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

1	57-11		$\overline{\wedge}$	
75-71-8	Dichlorodifluoromethane		.0	U
74-87-3	Chloromethane		.0	U
75-01-4	Vinyl Chloride	1	.0	υ
74-83-9	Bromomethane		.0	Ū
75-00-3	Chloroethane	1	.0	U
75-69-4	Trichlorofluoromethane	1	.0	U
75-35-4	1,1-Dichloroethene	1	0	Ū
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	.0	Ü
67-64-1	Acetone	1	.0	UI
75-15-0	Carbon Disulfide	1	0	Ū
79-20-9	Methyl Acetate	_ 1	.0	Ŭ
75-09-2	Methylene Chloride	1	.5	-B U
156-60-5	trans-1,2-Dichloroethene	1	0	Ū
1634-04-4	Methyl tert-Butyl Ether	1	.0	Ū
75-34-3	1,1-Dichloroethane	1	0	Ū
156-59-2	cis-1,2-Dichloroethene	1	.0	U
78-93-3	2-Butanone	1	0	<u>n :2 </u>
67-66-3	Chloroform		0	U
71-55-6	1,1,1-Trichloroethane	1	0	Ū
110-82-7	Cyclohexane	1	0	U
56-23-5	Carbon Tetrachloride	1	0	U
71-43-2	Benzene	1	0	Ū
107-06-2	1,2-Dichloroethane	1	0	U
· 				

B17W1

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-05

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

Lab File ID: OE177

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL)

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

79-01-6	Trichloroethene	10	Ū
108-87-2	Methylcyclohexane	10	Ū
78-87-5	1,2-Dichloropropane	10	Ū
75-27-4	Bromodichloromethane	10	Ū
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	Ū
108-88-3	Toluene	10	Ū
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	UI
124-48-1	Dibromochloromethane	10	Ŭ
106-93-4	1,2-Dibromoethane	10	Ū
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	Ū
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	Ū
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	Ū
79-34-5	1,1,2,2-Tetrachloroethane	10	Ū
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	Ū
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	Ū
120-82-1	1,2,4-Trichlorobenzene	10	Ū

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

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EPA	SAMPLE	NO.	:
	B17W1		-

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-05

Lab File ID: OE177

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec. ___

Date Analyzed: 01/21/04

GC Column: DB-624

ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

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

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) ug/L

		<u> </u>		
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	17.60	7	J. R.
2.	UNKNOWN SILOXANE	20.41	11-	JA
3.			<u> </u>	
4.				
5.				
6.				
7.				
8.				
9.				
10.		<u> </u>		
11.				
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15.		 	-	
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17W2 Contract: 68-W-03-018

Lab Name: CEIMIC CORP

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-14

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

Lab File ID: OE191

Level: (low/med) LOW

Date Received: 01/17/04

% Moisture: not dec. _____

Date Analyzed: 01/22/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

75-71-8	Dichlorodifluoromethane			10	ט
74-87-3	Chloromethane	·		10	U
75-01-4	Vinyl Chloride			10	ប្រា
74-83-9	Bromomethane			10	U
75-00-3	Chloroethane			10	U
75-69-4	Trichlorofluoromethane			10	U
75-35-4	1,1-Dichloroethene			10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane			10	Ŭ
67-64-1	Acetone			10	Ū
75-15-0	Carbon Disulfide			10	Ū
79-20-9	Methyl Acetate			10	U
75-09-2	Methylene Chloride		10	7	ਜ਼≅∪
156-60-5	trans-1,2-Dichloroethene			10	UTT
1634-04-4	Methyl tert-Butyl Ether		10	2	FU
75-34-3	1,1-Dichloroethane			10	U
156-59-2	cis-1,2-Dichloroethene			10	Ū
78-93-3	2-Butanone			10	បរា
67-66-3	Chloroform			10	Ū
71-55-6	1,1,1-Trichloroethane			10	ਹ -
110-82-7	Cyclohexane			10	U
56-23-5	Carbon Tetrachloride			10	Ū
71-43-2	Benzene			10	Ü
107-06-2	1,2-Dichloroethane			10	Ū

B17W2

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-14

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE191

Level: (low/med) LOW

Date Received: 01/17/04

% Moisture: not dec. _____

CAS NO. COMPOUND

Date Analyzed: 01/22/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____ (uL)

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

1			
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	Ū
75-27-4	Bromodichloromethane	10	Ū
10061-01-5	cis-1,3-Dichloropropene	10	Ū
108-10-1	4-Methyl-2-Pentanone	10	Ū
108-88-3	Toluene	10	Ū
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	Ū
127-18-4	Tetrachloroethene	19	U
591-78-6	2-Hexanone	10	Ū
124-48-1	Dibromochloromethane	10	Ū
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	Ü
1330-20-7	Xylene (Total)	10	Ū
100-42-5	Styrene	10	Ū
75-25-2	Bromoform	10	Ū
98-82-8	Isopropylbenzene	10	Ū
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	Ū
106-46-7	1,4-Dichlorobenzene	10	Ū
95-50-1	1,2-Dichlorobenzene	10	Ū
96-12-8	1,2-Dibromo-3-chloropropane	10	UZ
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO
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B17W2	

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-14

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

Lab File ID: OE191

Level: (low/med) LOW Date Received: 01/17/04

% Moisture: not dec. ____

Date Analyzed: 01/22/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ___(uL)

Soil Aliquot Volume: ____(uL)

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
		l i	=======================================	
1.	UNKNOWN SILOXANE	20.44		в₿
2.				
3.				
4.				
5.				
6.				
7.				
8. 9.				
10.				
11.	 			
12.	_	 		
13.				
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16.				
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27.	 			
28.]
29. 30.	 			
<u> </u>				/

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17W3

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-06

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

Lab File ID: OE161

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (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

75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	υ σ
· · · · · · · · · · · · · · · · · · ·				77 ==
75-01-4	Vinyl Chloride	<u> </u>	10	UI
74-83-9	Bromomethane		_10_	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		10	Ū
75-35-4	1,1-Dichloroethene		10_	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		10	Ū
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	Ū
79-20-9	Methyl Acetate		10	Ū
75-09-2	Methylene Chloride	10	-7	# } ()
156-60-5	trans-1,2-Dichloroethene		10	Ū
1634-04-4	Methyl tert-Butyl Ether .		10	U
75-34-3	1,1-Dichloroethane		10	Ŭ
156-59-2	cis-1,2-Dichloroethene		10	
78-93-3	2-Butanone		10	U II
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	Ū
110-82-7	Cyclohexane		10	Ū
56-23-5	Carbon Tetrachloride		10	U
71-43-2	Benzene		10	Ü
107-06-2	1,2-Dichloroethane		10	Ū

B17W3

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-06

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

Lab File ID: OE161

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (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

79-01-6	Trichloroethene	10 U
108-87-2	Methylcyclohexane	10 U
78-87-5	1,2-Dichloropropane	10 U
75-27-4	Bromodichloromethane	10 U
10061-01-5	cis-1,3-Dichloropropene	10 0
108-10-1	4-Methyl-2-Pentanone	10 U
108-88-3	Toluene	10 U
10061-02-6	trans-1,3-Dichloropropene	10 U
79-00-5	1,1,2-Trichloroethane	10 U
127-18-4	Tetrachloroethene	10 U
591-78-6	2-Hexanone	10 U
124-48-1	Dibromochloromethane	10 U
106-93-4	1,2-Dibromoethane	10 U
108-90-7	Chlorobenzene	10 U
100-41-4	Ethylbenzene	10 Ü
1330-20-7	Xylene (Total)	10 U
100-42-5	Styrene	10 U
75-25-2	Bromoform	10 U
98-82-8	Isopropylbenzene	10 U
79-34-5	1,1,2,2-Tetrachloroethane	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
95-50-1	1,2-Dichlorobenzene	10 U
96-12-8	1,2-Dibromo-3-chloropropane	10 U R
120-82-1	1,2,4-Trichlorobenzene	10 U

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	20.11 001120	
		B17W3
Contract:	68-W-03-018	

Lab Name: CEIMIC CORP

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-06

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

Lab File ID: OE161

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	17.62		JA
2.	UNKNOWN SILOXANE	20.42	12	
3.				
4				
5.				
6.				
7.				
8.	 			
9.				
10.				·
12.				
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14.	 			
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20.				
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27.				
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29.				
30.				

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17X1 Contract: 68-W-03-018

Lab Name: CEIMIC CORP

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-07

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

Lab File ID: OE162

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____ (uL)

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

75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U-7.
75-01-4	Vinyl Chloride		10	UT
74-83-9	Bromomethane		10	Ū
75-00-3	Chloroethane	T	10	Ū
75-69-4	Trichlorofluoromethane		10	Ū
75-35-4	1,1-Dichloroethene		10	Ū
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		10	Ū
67-64-1	Acetone		10	Ū
75-15-0	Carbon Disulfide		10	Ū
79-20-9	Methyl Acetate		10	Ū
75-09-2	Methylene Chloride	10 _	- - 5-	JB :J
75-09-2 156-60-5	Methylene Chloride trans-1,2-Dichloroethene	10	10	U JB U
156-60-5 1634-04-4	trans-1,2-Dichloroethene Methyl tert-Butyl Ether	10		
156-60-5	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane	10	10	U
156-60-5 1634-04-4	trans-1,2-Dichloroethene Methyl tert-Butyl Ether	10	10 10	Ŭ Ŭ
156-60-5 1634-04-4 75-34-3	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane	10	10 10	U U U
156-60-5 1634-04-4 75-34-3 156-59-2	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane cis-1,2-Dichloroethene	10	10 10 10 1	บ บ บ บ
156-60-5 1634-04-4 75-34-3 156-59-2 78-93-3	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane cis-1,2-Dichloroethene 2-Butanone	10	10 10 10 1 10	U U U U U U
156-60-5 1634-04-4 75-34-3 156-59-2 78-93-3 67-66-3	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane cis-1,2-Dichloroethene 2-Butanone Chloroform	10	10 10 10 1 1 10 10	บ บ บ บ <u></u> บ <u></u> บ <u></u> บ
156-60-5 1634-04-4 75-34-3 156-59-2 78-93-3 67-66-3 71-55-6	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane cis-1,2-Dichloroethene 2-Butanone Chloroform 1,1,1-Trichloroethane	10	10 10 10 1 1 10 10 10	U U U U U U U
156-60-5 1634-04-4 75-34-3 156-59-2 78-93-3 67-66-3 71-55-6 110-82-7	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane cis-1,2-Dichloroethene 2-Butanone Chloroform 1,1,1-Trichloroethane Cyclohexane	10	10 10 10 1 10 10 10 10	U U U U U U

1B VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17X1

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-07

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

Lab File ID: OE162

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec. _____

Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: (uL)

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

70 01 6	Trichloroethene	1	J
79-01-6			
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	ַל
75-27-4	Bromodichloromethane	10	Ŭ
10061-01-5	cis-1,3-Dichloropropene	10	Ū
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	Ū
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	Ū
127-18-4	Tetrachloroethene	100	
591-78-6	2-Hexanone	10	Ū
124-48-1	Dibromochloromethane	10	Ū
106-93-4	1,2-Dibromoethane	10	ับ
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	Ŭ
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	บ
98-82-8	Isopropylbenzene	10	Ū
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	Ū
96-12-8	1,2-Dibromo-3-chloropropane	10-	-U-K
120-82-1	1,2,4-Trichlorobenzene	10	U

1F VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B17X1	

Lab Name: CEIMIC CORP

Number TICs found: 2

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER Lab Sample ID: 040025-07

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE162

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec. ____ Date Analyzed: 01/20/04

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

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

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

CAS NUMBER COMPOUND NAME RT EST. CONC. Q 13 J- K UNKNOWN SILOXANE 17.61 13 JB (UNKNOWN SILOXANE 20.42 4. 6. 8. 9. 10. $\overline{11}$. 12. 13. 14. 15. 16. 17. 18. 19. 20. <u>21.</u> 22. 23. 24. 25. 26. 27. 28. <u> 29.</u> 30.

FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17X2

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-08

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE163

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec. _ ____

Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____ (uL)

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

75-71-8	Dichlorodifluoromethane			10	U
74-87-3	Chloromethane			10	UŢ
75-01-4	Vinyl Chloride			10	U
74-83-9	Bromomethane			10	U
75-00-3	Chloroethane			10	Ū
75-69-4	Trichlorofluoromethane			10	Ū
75-35-4	1,1-Dichloroethene			10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane			10	<u> </u>
67-64-1	Acetone			10	Ū
75-15-0	Carbon Disulfide			10	Ū
79-20-9	Methyl Acetate			10	Ū
	Mark Intellege Chilometer	 	<u> </u>		TD. il
75-09-2	Methylene Chloride		10	* 5	- 3B - ()
156-60-5	trans-1,2-Dichloroethene		€O	10	nap. A
	trans-1,2-Dichloroethene Methyl tert-Butyl Ether		<u> </u>	<u> </u>	
156-60-5	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane		(0	10	Ū
156-60-5 1634-04-4	trans-1,2-Dichloroethene Methyl tert-Butyl Ether		(0	10	Ŭ U
156-60-5 1634-04-4 75-34-3	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane			10 10 10	U U U
156-60-5 1634-04-4 75-34-3 156-59-2	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane cis-1,2-Dichloroethene 2-Butanone Chloroform		(0	10 10 10	U U U U
156-60-5 1634-04-4 75-34-3 156-59-2 78-93-3	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane cis-1,2-Dichloroethene 2-Butanone		(0	10 10 10 10 10	0 0 0 0
156-60-5 1634-04-4 75-34-3 156-59-2 78-93-3 67-66-3	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane cis-1,2-Dichloroethene 2-Butanone Chloroform 1,1,1-Trichloroethane Cyclohexane		(0	10 10 10 10 10	U U U U U U
156-60-5 1634-04-4 75-34-3 156-59-2 78-93-3 67-66-3 71-55-6	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane cis-1,2-Dichloroethene 2-Butanone Chloroform 1,1,1-Trichloroethane		(0	10 10 10 10 10 10	n n 2 n n
156-60-5 1634-04-4 75-34-3 156-59-2 78-93-3 67-66-3 71-55-6 110-82-7	trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane cis-1,2-Dichloroethene 2-Butanone Chloroform 1,1,1-Trichloroethane Cyclohexane		(0	10 10 10 10 10 10 10	n n n 2 n n

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17X2

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

SDG No.: B17T8 Lab Code: CEIMIC Case No.: 32512 SAS No.:

Matrix: (soil/water) WATER

Lab Sample ID: 040025-08

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

Lab File ID: OE163

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec. _____

Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ___ (uL)

Soil Aliquot Volume: (uL)

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

	·		
79-01-6	Trichloroethene	10	Ū
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	Ŭ
75-27-4	Bromodichloromethane	10	Ü
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	Ŭ
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	Ŭ
124-48-1	Dibromochloromethane	10	Ŭ
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U_
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	Ū
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	Ū
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	-B-K
120-82-1	1.2.4-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

B17Y2

			DI 1752
Lab Name:	CEIMIC CORP	Contract: 68-W-03-018	

SDG No.: B17T8 Case No.: 32512 SAS No.: Lab Code: CEIMIC

Lab Sample ID: 040025-08 Matrix: (soil/water) WATER

Lab File ID: OE163 Sample wt/vol: 5.000 (g/mL) ML

Date Received: 01/16/04 Level: (low/med) LOW

Date Analyzed: 01/20/04 % Moisture: not dec.

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

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

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

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	17.61		_ ~
2.	UNKNOWN SILOXANE	20.42	7	JB K
3.				
4.				
5				
6				
7.				
8.		 _		ļ
9.		 		
10.		_		
11.		-	 _	
13.		 		<u> </u>
14.		 		L
15.				
16.		 		
17.				
18.				
19.				
20.				
21.				
22.				
23.		 		
24.		<u> </u>		
25.				
26. 27.		 		
28.		<u> </u>	<u> </u>	
<u> 20.</u> 29.				
30.		 		

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER Lab Sample ID: 040025-15

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0E192

Level: (low/med) LOW Date Received: 01/17/04

% Moisture: not dec. ____ Date Analyzed: 01/22/04

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

CAS NO. COMPOUND

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

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

75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	UJ
75-01-4	Vinyl Chloride	10	UI
74-83-9	Bromomethane	10	Ü
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	Ū
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	Ū
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	Ū
79-20-9	Methyl Acetate	10	Ū
75-09-2	Methylene Chloride	10	BU
156-60-5	trans-1,2-Dichloroethene	10	UT
1634-04-4	Methyl tert-Butyl Ether	10	Ū
75-34-3	1,1-Dichloroethane	10	Ū
156-59-2	cis-1,2-Dichloroethene	10	Ū
78-93-3	2-Butanone	10	UI
67-66-3	Chloroform	10	Ū
71-55-6	1,1,1-Trichloroethane	10	Ū
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	Ū
71-43-2	Benzene	10	0
107-06-2	1,2-Dichloroethane	10	Ū
			

1B VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17X5

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-15

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

Lab File ID: OE192

Level: (low/med) LOW

Date Received: 01/17/04

% Moisture: not dec.

Date Analyzed: 01/22/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.

COMPOUND

120-82-1 1,2,4-Trichlorobenzene

79-01-6	Trichloroethene		10	ָ <u>ט</u>
108-87-2	Methylcyclohexane		10	บ
78-87-5	1,2-Dichloropropane		10	Ū
75-27-4	Bromodichloromethane		10	Ū
10061-01-5	cis-1,3-Dichloropropene		10	Ū
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		10	Ū
10061-02-6	trans-1,3-Dichloropropene		[0	Ū
79-00-5	1,1,2-Trichloroethane		10	U
127-18-4	Tetrachloroethene	10	70	J ()
591-78-6	2-Hexanone		10	Ū
124-48-1	Dibromochloromethane		LO	<u>U</u>
106-93-4	1,2-Dibromoethane		LO	U
108-90-7	Chlorobenzene		LO	<u>U</u>
100-41-4	Ethylbenzene		LO	U
1330-20-7	Xylene (Total)		0	U
100-42-5	Styrene		10	Ū
75-25-2	Bromoform		.0	U
98-82-8	Isopropylbenzene		.0	Ū
<u>79-34-5</u>	1,1,2,2-Tetrachloroethane		_0_	บ
541-73-1	1,3-Dichlorobenzene		.0	U
106-46-7	1,4-Dichlorobenzene		.0	U
95-50-1	1,2-Dichlorobenzene	1	0	Ū
96-12-8	1,2-Dibromo-3-chloropropane	1	.0	U 3

1F VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B17X 5	

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC

Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-15

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

Lab File ID: OE192

Level: (low/med) LOW

Date Received: 01/17/04

% Moisture: not dec. ____

Date Analyzed: 01/22/04

GC Column: DB-624 ID: 0.25 (mm)

Number TICs found: 1

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____ (uL)

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	20.44	7======================================	JB R
$\left \frac{1}{2} \right $	ONMOWN SILONAME	20.44		7
3.			 	
$\left \frac{3}{4} \right $				 -
5.				
6.				
$\left \frac{3}{7} \right $				
8.	·			
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.	•			
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17X6 Contract: 68-W-03-018

Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER Lab Sample ID: 040025-09

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE178

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec. _____ Date Analyzed: 01/21/04

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

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) $\underline{\text{UG/L}}$ Q

,				
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	Ū
75-01-4	Vinyl Chloride		10	Ū
74-83-9	Bromomethane		10	Ū
75-00-3	Chloroethane		10	Ū
75-69-4	Trichlorofluoromethane		10	Ū
75-35-4	1,1-Dichloroethene		3	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		10	U
67-64-1	Acetone		10	UIT
75-15-0	Carbon Disulfide		10	U
79-20-9	Methyl Acetate		10	Ū
75-09-2	Methylene Chloride	10	-8-	JE C
156-60-5	trans-1,2-Dichloroethene		10	Ū
1634-04-4	Methyl tert-Butyl Ether		10	Ū
75-34-3	1,1-Dichloroethane		10	Ū
156-59-2	cis-1,2-Dichloroethene		10	Ū
78-93-3	2-Butanone		10_	U
67-66-3	Chloroform	·	10	U
71-55-6	1,1,1-Trichloroethane		1	J
110-82-7	Cyclohexane		10	Ū
56-23-5	Carbon Tetrachloride	,	10	U
71-43-2	Benzene		10	<u>U</u>
107-06-2	1,2-Dichloroethane		10	Ū

1B VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17X6 Contract: 68-W-03-018

Lab Name: CEIMIC CORP

SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-09

Lab Code: CEIMIC

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

Case No.: 32512

Lab File ID: OE178

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (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

79-01-6	Trichloroethene		$-\frac{1}{1}$	J
108-87-2	Methylcyclohexane		10	Ū
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	Ū
108-10-1	4-Methyl-2-Pentanone		10	Ū
108-88-3	Toluene		10	Ū
10061-02-6	trans-1,3-Dichloropropene		10	Ū
79-00-5	1,1,2-Trichloroethane		10	Ū
127-18-4	Tetrachloroethene	10		₩ (<u>)</u>
591-78-6	2-Hexanone		10	UI
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	Ū
108-90-7	Chlorobenzene		10	Ū
100-41-4	Ethylbenzene		10	Ū
1330-20-7	Xylene (Total)		10	Ū
100-42-5	Styrene		10	Ū
75-25-2	Bromoform		10	Ū
98-82-8	Isopropylbenzene		10	Ū
79-34-5	1,1,2,2-Tetrachloroethane		10	Ū
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	Ū
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-chloropropane		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

B17X6

Lab Name: CEIMIC CORP Contract:	68-W-03-01	8
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Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER Lab Sample ID: 040025-09

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE178

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec. ____ Date Analyzed: 01/21/04

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

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

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	17.61	8-	==== ゴ ½
2.	UNKNOWN SILOXANE	20.41	1.3-	7
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19.		+		
20.		 		
21.		+		
22.		+		
23.		1		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17X7 Lab Name: CEIMIC CORP Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER Lab Sample ID: 040025-16

Sample wt/vol: 5.000 (g/mL) MLLab File ID: OE185

Level: (low/med) LOW Date Received: 01/17/04

% Moisture: not dec. _____ Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (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 75-71-8 Dichlorodifluoromethane 10 Ū 74-87-3 Chloromethane Vinyl Chloride 75-01-4 10 Ū 74-83-9 Bromomethane 10 Ū 75-00-3 Chloroethane Ū 10

75-69-4	Trichlorofluoromethane		0 [U
75-35-4	1,1-Dichloroethene	1	0	Ū
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	$\overline{0}$	Ū
67-64-1	Acetone	10	Ō	UI
75-15-0	Carbon Disulfide	10	Ō	Ū
79-20-9	Methyl Acetate ·	10	Ō	Ū
75-09-2	Methylene Chloride	1:	3_ [U &
156-60-5	trans-1,2-Dichloroethene	10	0	U
1634-04-4	Methyl tert-Butyl Ether	10	<u> </u>	Ū
75-34-3	1,1-Dichloroethane	10	0	Ū
156-59-2	cis-1,2-Dichloroethene	_1(0	Ū
78-93-3	2-Butanone	10	0	UI
67-66-3	Chloroform	10	0	<u>U</u>
71-55-6	1,1,1-Trichloroethane	10	0	Ū

110-82-7

71-43-2

56-23-5

Cyclohexane

Benzene 107-06-2 1,2-Dichloroethane

Carbon Tetrachloride

10

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1B VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17X7

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-16

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

Lab File ID: OE185

Level: (low/med) LOW

Date Received: 01/17/04

% Moisture: not dec. _____

Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (mm)

CAS NO. COMPOUND

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL)

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

79-01-6	Trichloroethene	10	Ū
108-87-2	Methylcyclohexane	10	Ū
78-87-5	1,2-Dichloropropane	10	Ū
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	Ū
108-10-1	4-Methyl-2-Pentanone	10	ע
108-88-3	Toluene	10	บ
10061-02-6	trans-1,3-Dichloropropene	10	บ.
79~00-5	1,1,2-Trichloroethane	10	Ū
127-18-4	Tetrachloroethene	110	
591-78-6	2-Hexanone	10	UI
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	Ū
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	Ŭ
1330-20-7	Xylene (Total)		Ū
100-42-5	Styrene	10	Ŭ
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	Ŭ
79-34-5	1,1,2,2-Tetrachloroethane	10	Ŭ
541-73-1	1,3-Dichlorobenzene	10	· U
106-46-7	1,4-Dichlorobenzene	10	Ü
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: CEIMIC CORP Contract:

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER Lab Sample ID: 040025-16

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE185

Level: (low/med) LOW Date Received: 01/17/04

% Moisture: not dec. ____ Date Analyzed: 01/21/04

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

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

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

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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$\left \begin{array}{c} 1 \\ \hline 2 \end{array} \right $	UNKNOWN SILOXANE	20.41	- 8-	JR
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17X8

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-10

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

Lab File ID: OE179

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec. _____

Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL)

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

CAS NO. COMPOUND

75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	Ü
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	Ü
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	Ū
67-64-1	Acetone		UT
75-15-0	Carbon Disulfide	10	Ū
79-20-9	Methyl Acetate	10	Ū
75-09-2	Methylene Chloride	13	B U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	ַ ע
75-34-3	1,1-Dichloroethane	10	Ū
156-59-2	cis-1,2-Dichloroethene	10	Ū
78-93-3	2-Butanone	10	03
67-66-3	Chloroform		U
71-55-6	1,1,1-Trichloroethane	10	Ū
110-82-7	Cyclohexane	10	Ū
56-23-5	Carbon Tetrachloride	10	Ū
71-43-2	Benzene	10	Ū
107-06-2	1,2-Dichloroethane	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

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10 1		- 1	

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-10

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

Lab File ID: OE179

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____(uL)

Soil Aliquot Volume: (uL)

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

CAS NO. COMPOUND

79-01-6	Trichloroethene	10	<u></u> ט
108-87-2	Methylcyclohexane	10	Ū
78-87-5	1,2-Dichloropropane	10	Ü
75-27-4	Bromodichloromethane	10	Ū
10061-01-5	cis-1,3-Dichloropropene	10	Ū_
108-10-1	4-Methyl-2-Pentanone	10	Ū
108-88-3	Toluene	10	<u>U</u>
10061-02-6	trans-1,3-Dichloropropene	10	U_
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	Ū
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene		U
75-25-2	Bromoform	10	Ū
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	Ū
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	Ü
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	Ü
120-82-1	1,2,4-Trichlorobenzene	10	Ū

1FVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

	B17X8
1	BI/A0

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-10

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

Lab File ID: OE179

Level: (low/med)

LOW

Date Received: 01/16/04

% Moisture: not dec. _____

Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____ (uL)

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

Number TICs found: 1

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CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1.	UNKNOWN SILOXANE	20.41		J- K
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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CEIMIC CORP Contract: 68-W-03-018 B17Y0

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-17

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

Lab File ID: OE193

Level: (low/med) LOW

Date Received: 01/17/04

% Moisture: not dec.

Date Analyzed: 01/22/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____ (uL)

Soil Aliquot Volume: ___ (uL)

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

CAS NO. COMPOUND

		+
	10	U
	10	U 3
	10	UI
	10	Ū
Chloroethane	10	U
Trichlorofluoromethane	10	U
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoroethane	10	Ū
Acetone	10	Ū
Carbon Disulfide	10	Ū
Methyl Acetate	10	Ū
Methylene Chloride	10	BU
trans-1,2-Dichloroethene	10	U 3
Methyl tert-Butyl Ether	10	Ū
1,1-Dichloroethane	10	U
cis-1,2-Dichloroethene	10	Ū
2-Butanone	10	UI
Chloroform	10	Ū
1,1,1-Trichloroethane	10	Ū
Cyclohexane	10	ਹ
Carbon Tetrachloride	10	Ū
Benzene	10	Ū
1,2-Dichloroethane	10	Ū
	1,1-Dichloroethene 1,1,2-Trichloro-1,2,2-trifluoroethane Acetone Carbon Disulfide Methyl Acetate Methylene Chloride trans-1,2-Dichloroethene Methyl tert-Butyl Ether 1,1-Dichloroethane cis-1,2-Dichloroethene 2-Butanone Chloroform 1,1,1-Trichloroethane Cyclohexane Carbon Tetrachloride Benzene	Chloromethane 10 Vinyl Chloride 10 Bromomethane 10 Chloroethane 10 Trichlorofluoromethane 10 1,1-Dichloroethene 10 1,1,2-Trichloro-1,2,2-trifluoroethane 10 Acetone 10 Carbon Disulfide 10 Methyl Acetate 10 Methyl Acetate 10 Methylene Chloride 10 trans-1,2-Dichloroethene 10 Methyl tert-Butyl Ether 10 1,1-Dichloroethane 10 cis-1,2-Dichloroethene 10 2-Butanone 10 Chloroform 10 1,1,1-Trichloroethane 10 Cyclohexane 10 Carbon Tetrachloride 10 Benzene 10

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

B17Y0

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Lab Sample ID: 040025-17

Matrix: (soil/water) WATER

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE193

Level: (low/med) LOW

Date Received: 01/17/04

% Moisture: not dec.

Date Analyzed: 01/22/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL)

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

CAS NO. COMPOUND

79-01-6	Trichloroethene	1	
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27 - 4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	Ū
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10 4	せい
591-78-6	2-Hexanone	10	Ū
124-48-1	Dibromochloromethane	10	Ū
106-93-4	1,2-Dibromoethane	10	Ū
108-90-7	Chlorobenzene	10	Ū
100-41-4	Ethylbenzene	10	Ū
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	Ū
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	Ū
79-34-5	1,1,2,2-Tetrachloroethane	10	Ū
541-73-1	1,3-Dichlorobenzene	10	Ū
106-46-7	1,4-Dichlorobenzene	10	Ū
95-50-1	1,2-Dichlorobenzene	10	Ū
96-12-8	1,2-Dibromo-3-chloropropane	10	UJ
120-82-1	1,2,4-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B17Y0	
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Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-17

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

Lab File ID: OE193

Level: (low/med) LOW

Date Received: 01/17/04

% Moisture: not dec. _____

Date Analyzed: 01/22/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL)

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

Number TICs found: 2

- 			 	Г —
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	17.63	8-====================================	J 7.
2.	UNKNOWN SILOXANE	20.44		JB K.
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17Y5

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-01

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

Lab File ID: OE156

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/20/04

GC Column: DB-624 ID: 0.25 (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

75-71-8	Dichlorodifluoromethane	10	Ū
74-87-3	Chloromethane	10	U.Z.
75-01-4	Vinyl Chloride	10	UJ
74-83-9	Bromomethane	10	Ū
75-00-3	Chloroethane	10	Ū
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	_U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	Ū
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene <u>Chloride</u>	5	JP*
156-60-5	trans-1,2-Dichloroethene .	10	U
1634-04-4	Methyl tert-Butyl Ether	10	Ü
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	Ū
78-93-3	2-Butanone	10	UZ
67-66-3	Chloroform	10	Ŭ
71-55-6	1,1,1-Trichloroethane	10	Ŭ
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1FVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B17 Y 5

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

ab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER Lab Sample ID: 040025-01

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE156

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec. _____ Date Analyzed: 01/20/04

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

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

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) ug/L

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CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN SILOXANE	20.42		Jø
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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

₽ B17Y6

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-11

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

Lab File ID: OE180

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec. _____

Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL)

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

CAS NO. COMPOUND

75-71-8	Dichlorodifluoromethane		10	Ū
74-87-3	Chloromethane		10	U
75-01-4	Vinyl Chloride	<u></u>	10	Ŭ
74-83-9	Bromomethane		10	Ū
75-00-3	Chloroethane		10	Ū
75-69-4	Trichlorofluoromethane		10	Ū
75-35-4	1,1-Dichloroethene		10	Ū
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		10	
67-64-1	Acetone		10	UI
75-15-0	Carbon Disulfide		10	Ū
79-20-9	Methyl Acetate		10	L Ü
75-09-2	Methylene Chloride		_15	ф
156-60-5	trans-1,2-Dichloroethene		10	U
1634-04-4	Methyl tert-Butyl Ether		4	5
75-34-3	1,1-Dichloroethane		10	Ū
156-59-2	cis-1,2-Dichloroethene		10	U
78-93-3	2-Butanone		10	UIT
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	_ U
110-82-7	Cyclohexane		10	U
56-23-5	Carbon Tetrachloride		10	Ū
71-43-2	Benzene		10	Ū
107-06-2	1,2-Dichloroethane		10	U

EPA SAMPLE NO.

B17Y6

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-11

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

Lab File ID: OE180

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL)

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

CAS NO. COMPOUND

79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	Ŭ
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	Ū
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	Ū
108-88-3	Toluene	10	Ü
10061-02-6	trans-1,3-Dichloropropene	10	Ū
79-00-5	1,1,2-Trichloroethane	10	Ū
$\frac{127-18-4}{}$	Tetrachloroethene	6	J
591-78-6	2-Hexanone	10	UI
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	Ū
108-90-7	Chlorobenzene	10	Ü
100-41-4	Ethylbenzene	10	Ū
1330-20-7	Xylene (Total)		Ü
100-42-5	Styrene	10	Ū
75-25-2	Bromoform	10	Ū
98-82-8	Isopropylbenzene	10	Ū
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	Ū
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	Ü
120-82-1	1,2,4-Trichlorobenzene	10	Ū

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

B17Y6	
	B17Y6

EPA SAMPLE NO.

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-11

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

Lab File ID: OE180

Level: (low/med)

LOW

Date Received: 01/16/04

% Moisture: not dec. _____

Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ___ (uL)

CONCENTRATION UNITS:

Number TICs found: 1

(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	20.41	9	===== J
2.				
3				
4				
5.		 		
6. 7.				
8.				
9.		 	<u> </u>	
10.				
11.				
12.				
13				
14.				
15.		<u> </u>		
16. 17.				
18.	_	 		
19				
20.		+		
21.				
22.				
23.				·
24.				
25.		<u> </u>		
26.		 		
27.		+		
28. 29.		 		
30.			· · · · · · · · · · · · · · · · · · ·	

IA VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CEIMIC CORP Contract: 68-W-03-018

TB B17Y7

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER Lab Sample ID: 040025-12

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 0E181

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec. Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (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

75-71-8	Dichlorodifluoromethane	10	U
74-87-3	·Chloromethane	10	Ū
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	Ū
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	UJ
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	12	-B-
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	Ŭ
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	Ü
78-93-3	2-Butanone	10	U 2
67-66-3	Chloroform	10	Ŭ
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	Ū
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	Ŭ

	- }
B17Y7	}
	-

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-12

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

Lab File ID: OE181

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) <u>UG/L</u> Q

79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	Ü
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	_U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	Ū
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	Ū
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	Ω 2 .
124-48-1	Dibromochloromethane	10	Ū
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	Ŭ
79-34-5	1,1,2,2-Tetrachloroethane	10	Ü
541-73-1	1,3-Dichlorobenzene	10	Ŭ
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	Ü
120-82-1	1,2,4-Trichlorobenzene	10	U

1FVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-12

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

Lab File ID: OE181

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL)

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

Number TICs found: 1

1			<u> </u>	<u> </u>
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		========	=======================================	====
1.	UNKNOWN SILOXANE	20.41	10	J
$\left \frac{2}{3} \right $				
4.				
5.				
6.				
$\left \frac{3}{7} \right $				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
	 			
30.				

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FP B17Y8

Lab Name: CEIMIC CORP

Lab Code: CEIMIC Case No.: 32512 SAS No.:

Contract: 68-W-03-018

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-18

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

Lab File ID: OE194

Level: (low/med) LOW

Date Received: 01/17/04

% Moisture: not dec. _____

Date Analyzed: 01/22/04

GC Column: DB-624 ID: 0.25 (mm)

CAS NO. COMPOUND

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

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

75-71-8				
75-01-4 Vinyl Chloride 10 U T 74-83-9 Bromomethane 10 U 75-00-3 Chloroethane 10 U 75-69-4 Trichlorofluoromethane 10 U 75-35-4 1,1-Dichloroethene 10 U 67-61-1 1,1,2-Trichloro-1,2,2-trifluoroethane 10 U 67-64-1 Acetone 10 U 75-15-0 Carbon Disulfide 10 U 79-20-9 Methyl Acetate 10 U 75-09-2 Methylene Chloride 10 B 156-60-5 trans-1,2-Dichloroethene 10 U 1634-04-4 Methyl tert-Butyl Ether 4 J 75-34-3 1,1-Dichloroethane 10 U 156-59-2 Cis-1,2-Dichloroethene 10 U 78-93-3 2-Butanone 10 U 67-66-3 Chloroform 10 U 71-55-6 1,1,1-Trichloroethane 10 U 10-	75-71-8	Dichlorodifluoromethane	10	ַ ע
74-83-9 Bromomethane 10 U 75-00-3 Chloroethane 10 U 75-69-4 Trichlorofluoromethane 10 U 75-35-4 1,1-Dichloroethene 10 U 76-13-1 1,1,2-Trichloro-1,2,2-trifluoroethane 10 U 67-64-1 Acetone 10 U 75-15-0 Carbon Disulfide 10 U 79-20-9 Methyl Acetate 10 U 75-09-2 Methylene Chloride 10 U 156-60-5 trans-1,2-Dichloroethene 10 U 1634-04-4 Methyl tert-Butyl Ether 4 J 75-34-3 1,1-Dichloroethane 10 U 156-59-2 cis-1,2-Dichloroethene 10 U 78-93-3 2-Butanone 10 U 67-66-3 Chloroform 10 U 71-55-6 1,1,1-Trichloroethane 10 U 110-82-7 Cyclohexane 10 U 56-23-5 Carbon Tetrachloride 10 U 71-43-2 <td< td=""><td>74-87-3</td><td>Chloromethane</td><td>10</td><td>UZ</td></td<>	74-87-3	Chloromethane	10	UZ
75-00-3 Chloroethane 10 U 75-69-4 Trichlorofluoromethane 10 U 75-35-4 1,1-Dichloroethene 10 U 76-13-1 1,1,2-Trichloro-1,2,2-trifluoroethane 10 U 67-64-1 Acetone 10 U 75-15-0 Carbon Disulfide 10 U 79-20-9 Methyl Acetate 10 U 75-09-2 Methylene Chloride 10 B 156-60-5 trans-1,2-Dichloroethene 10 U 1634-04-4 Methyl tert-Butyl Ether 4 J 75-34-3 1,1-Dichloroethane 10 U 156-59-2 cis-1,2-Dichloroethene 10 U 78-93-3 2-Butanone 10 U 67-66-3 Chloroform 10 U 71-55-6 1,1,1-Trichloroethane 10 U 110-82-7 Cyclohexane 10 U 56-23-5 Carbon Tetrachloride 10 U 71-43-2 Benzene 10 U	75-01-4	Vinyl Chloride	10	UI
75-69-4 Trichlorofluoromethane 10 U	74-83-9	Bromomethane	10	U
75-35-4 1,1-Dichloroethene 10 U 76-13-1 1,1,2-Trichloro-1,2,2-trifluoroethane 10 U 67-64-1 Acetone 10 U 75-15-0 Carbon Disulfide 10 U 79-20-9 Methyl Acetate 10 U 75-09-2 Methylene Chloride 10 B 156-60-5 trans-1,2-Dichloroethene 10 U 1634-04-4 Methyl tert-Butyl Ether 4 J 75-34-3 1,1-Dichloroethane 10 U 156-59-2 cis-1,2-Dichloroethene 10 U 78-93-3 2-Butanone 10 U 67-66-3 Chloroform 10 U 71-55-6 1,1,1-Trichloroethane 10 U 10-82-7 Cyclohexane 10 U 56-23-5 Carbon Tetrachloride 10 U 71-43-2 Benzene 10 U	75-00-3	Chloroethane	10	U
76-13-1 1,1,2-Trichloro-1,2,2-trifluoroethane 10 U 67-64-1 Acetone 10 U 75-15-0 Carbon Disulfide 10 U 79-20-9 Methyl Acetate 10 U 75-09-2 Methylene Chloride 10 B 156-60-5 trans-1,2-Dichloroethene 10 U 1634-04-4 Methyl tert-Butyl Ether 4 J 75-34-3 1,1-Dichloroethane 10 U 156-59-2 cis-1,2-Dichloroethene 10 U 78-93-3 2-Butanone 10 U 67-66-3 Chloroform 10 U 71-55-6 1,1,1-Trichloroethane 10 U 110-82-7 Cyclohexane 10 U 56-23-5 Carbon Tetrachloride 10 U 71-43-2 Benzene 10 U	75-69-4	Trichlorofluoromethane	10	U
67-64-1 Acetone 10 U 75-15-0 Carbon Disulfide 10 U 79-20-9 Methyl Acetate 10 U 75-09-2 Methylene Chloride 10 B 156-60-5 trans-1,2-Dichloroethene 10 U 1634-04-4 Methyl tert-Butyl Ether 4 J 75-34-3 1,1-Dichloroethane 10 U 156-59-2 Cis-1,2-Dichloroethene 10 U 78-93-3 2-Butanone 10 U 67-66-3 Chloroform 10 U 71-55-6 1,1,1-Trichloroethane 10 U 110-82-7 Cyclohexane 10 U 56-23-5 Carbon Tetrachloride 10 U 71-43-2 Benzene 10 U	75-35-4		10	Ū
75-15-0 Carbon Disulfide 10 U 79-20-9 Methyl Acetate 10 U 75-09-2 Methylene Chloride 10 B 156-60-5 trans-1,2-Dichloroethene 10 U 1634-04-4 Methyl tert-Butyl Ether 4 J 75-34-3 1,1-Dichloroethane 10 U 156-59-2 Cis-1,2-Dichloroethene 10 U 78-93-3 2-Butanone 10 U 67-66-3 Chloroform 10 U 71-55-6 1,1,1-Trichloroethane 10 U 110-82-7 Cyclohexane 10 U 56-23-5 Carbon Tetrachloride 10 U 71-43-2 Benzene 10 U		1,1,2-Trichloro-1,2,2-trifluoroethane	10	Ū
79-20-9 Methyl Acetate 10 U 75-09-2 Methylene Chloride 10 B 156-60-5 trans-1,2-Dichloroethene 10 U 1634-04-4 Methyl tert-Butyl Ether 4 J 75-34-3 1,1-Dichloroethane 10 U 156-59-2 Cis-1,2-Dichloroethene 10 U 78-93-3 2-Butanone 10 U 67-66-3 Chloroform 10 U 71-55-6 1,1,1-Trichloroethane 10 U 10-82-7 Cyclohexane 10 U 56-23-5 Carbon Tetrachloride 10 U 71-43-2 Benzene 10 U	67-64-1	Acetone	10	U
75-09-2 Methylene Chloride 10 B 156-60-5 trans-1,2-Dichloroethene 10 U 1634-04-4 Methyl tert-Butyl Ether 4 J 75-34-3 1,1-Dichloroethane 10 U 156-59-2 Cis-1,2-Dichloroethene 10 U 78-93-3 2-Butanone 10 U 67-66-3 Chloroform 10 U 71-55-6 1,1,1-Trichloroethane 10 U 110-82-7 Cyclohexane 10 U 56-23-5 Carbon Tetrachloride 10 U 71-43-2 Benzene 10 U	75-15-0	Carbon Disulfide	10	Ū
156-60-5 trans-1,2-Dichloroethene 10 U 1 1634-04-4 Methyl tert-Butyl Ether 4 J 75-34-3 1,1-Dichloroethane 10 U 156-59-2 Cis-1,2-Dichloroethene 10 U 78-93-3 2-Butanone 10 U 67-66-3 Chloroform 10 U 71-55-6 1,1,1-Trichloroethane 10 U 110-82-7 Cyclohexane 10 U 56-23-5 Carbon Tetrachloride 10 U 71-43-2 Benzene 10 U	79-20-9	Methyl Acetate	10	Ū
1634-04-4 Methyl tert-Butyl Ether 4 J 75-34-3 1,1-Dichloroethane 10 U 156-59-2 cis-1,2-Dichloroethene 10 U 78-93-3 2-Butanone 10 U 67-66-3 Chloroform 10 U 71-55-6 1,1,1-Trichloroethane 10 U 110-82-7 Cyclohexane 10 U 56-23-5 Carbon Tetrachloride 10 U 71-43-2 Benzene 10 U	75-09-2	Methylene Chloride	10	- B
75-34-3 1,1-Dichloroethane 10 U 156-59-2 cis-1,2-Dichloroethene 10 U 78-93-3 2-Butanone 10 U 67-66-3 Chloroform 10 U 71-55-6 1,1,1-Trichloroethane 10 U 110-82-7 Cyclohexane 10 U 56-23-5 Carbon Tetrachloride 10 U 71-43-2 Benzene 10 U	156-60-5		10	U 📆
156-59-2 cis-1,2-Dichloroethene 10 U 78-93-3 2-Butanone 10 U 67-66-3 Chloroform 10 U 71-55-6 1,1,1-Trichloroethane 10 U 110-82-7 Cyclohexane 10 U 56-23-5 Carbon Tetrachloride 10 U 71-43-2 Benzene 10 U	1634-04-4	Methyl tert-Butyl Ether	4	J
78-93-3 2-Butanone 10 U 3 67-66-3 Chloroform 10 U 71-55-6 1,1,1-Trichloroethane 10 U 110-82-7 Cyclohexane 10 U 56-23-5 Carbon Tetrachloride 10 U 71-43-2 Benzene 10 U	75-34-3	1,1-Dichloroethane	10	U
67-66-3 Chloroform 10 U 71-55-6 1,1,1-Trichloroethane 10 U 110-82-7 Cyclohexane 10 U 56-23-5 Carbon Tetrachloride 10 U 71-43-2 Benzene 10 U	156-59-2	cis-1,2-Dichloroethene	10	Ū
71-55-6 1,1,1-Trichloroethane 10 U 110-82-7 Cyclohexane 10 U 56-23-5 Carbon Tetrachloride 10 U 71-43-2 Benzene 10 U	78-93-3	2-Butanone	10	U 7
110-82-7 Cyclohexane 10 U 56-23-5 Carbon Tetrachloride 10 U 71-43-2 Benzene 10 U	67-66-3	Chloroform	10	Ū
56-23-5 Carbon Tetrachloride 10 U 71-43-2 Benzene 10 U	71-55-6	1,1,1-Trichloroethane	10	U
71-43-2 Benzene 10 U	110-82-7		10	Ū
	56-23-5	Carbon Tetrachloride	10	U
107-06-2 1.2-Dichloroethane 10 II	71-43-2	Benzene	10	Ū
10 / 00 E 1/2 D 1011201 0 0 0 1 0	107-06-2	1,2-Dichloroethane	10	Ū

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

14 B17Y8

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-18

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

Lab File ID: OE194

Level: (low/med) LOW

Date Received: 01/17/04

% Moisture: not dec.

Date Analyzed: 01/22/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____ (uL)

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

CAS NO. COMPOUND

79-01-6	Trichloroethene	10	Ū
108-87-2	Methylcyclohexane	10	Ü
78-87-5	1,2-Dichloropropane	10	Ū
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	Ū
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	Ū
127-18-4	Tetrachloroethene	6	J
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	Ū
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	Ü
1330-20-7	Xylene (Total)	10	U_
100-42-5	Styrene	10	Ū
75-25-2	Bromoform	10	Ū
98-82-8	Isopropylbenzene	10	Ū
79-34-5	1,1,2,2-Tetrachloroethane	10	Ū
541-73-1	1,3-Dichlorobenzene	10	Ū
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	UI
120-82-1	1,2,4-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

STATITUS OF CONTROL OF STATE OF STATE	
TENTATIVELY IDENTIFIED COMPOUNDS	- 1 D1 330
Contract: 68-W-03-018	B17Y8

Lab Name: CEIMIC CORP Contract: 68-W-03-01

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER Lab Sample ID: 040025-18

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE194

Level: (low/med) LOW Date Received: 01/17/04

% Moisture: not dec. ____ Date Analyzed: 01/22/04

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

Number TICs found: 1

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

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

CAS NUMBER COMPOUND NAME RT EST. CONC. UNKNOWN SILOXANE 17.63 6 J 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 23. 24. 25. 26. 27. 28. 29. 30.

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

B17Y9

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-19

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

Lab File ID: OE195

Level: (low/med) LOW

Date Received: 01/17/04

% Moisture: not dec. ____

Date Analyzed: 01/22/04

GC Column: DB-624 ID: 0.25 (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

75-71-8	Dichlorodifluoromethane		10	บ
74-87-3	- Chloromethane		10	0.2
75-01-4	Vinyl Chloride		10	णज
74-83-9	Bromomethane		10	Ū
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		10	บ
75-35-4	1,1-Dichloroethene		10	Ū
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	L	10	Ū
67-64-1	Acetone		10	Ü
75-15-0	Carbon Disulfide		10	U
79-20-9	Methyl Acetate		10	U
75-09-2	Methylene Chloride		6	JE
156-60-5	trans-1,2-Dichloroethene		10	UIS
1634-04-4	Methyl tert-Butyl Ether	·	10	U
75-34-3	1,1-Dichloroethane		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
78-93-3	2-Butanone		10	UŢ
67-66-3	Chloroform		10	Ū
71-55-6	1,1,1-Trichloroethane		10	U
110-82-7	Cyclohexane		10	U
56-23-5	Carbon Tetrachloride		10	Ū
71-43-2	Benzene ·		10	Ū
107-06-2	1,2-Dichloroethane		10	Ū

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-19

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

Lab File ID: OE195

Level: (low/med) LOW

Date Received: 01/17/04

% Moisture: not dec. _____

Date Analyzed: 01/22/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL)

CAS NO. COMPOUND

Soil Extract Volume: (uL)

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

79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	$\frac{1}{U}$
		10	\overline{u}
78-87-5	1,2-Dichloropropane		
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	Ŭ
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	Ū
79-00-5	1,1,2-Trichloroethane	10	Ū
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	Ü
124-48-1	Dibromochloromethane	10	Ū
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	Ū
100-41-4	Ethylbenzene	10	Ū
1330-20-7	Xylene (Total)	10	Ū
100-42-5	Styrene	10	Ū
75-25-2	Bromoform	10	Ū
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	Ū
106-46-7	1,4-Dichlorobenzene	10	Ū
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	UJ
120-82-1	1,2,4-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

113	B17Y9	

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-19

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

Lab File ID: OE195

Level: (low/med) LOW

Date Received: 01/17/04

% Moisture: not dec.

Date Analyzed: 01/22/04

GC Column: DB-624

ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ___ (uL)

CONCENTRATION UNITS:

Number TICs found: 1

(ug/L or ug/Kg) ug/L

			<u></u>	
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	20.44	20	J B
2.	CINCIONIN SILOAANE	20.44	20	Up
$\frac{2}{3}$.				
4.	 	 		
5.				
6.			<u> </u>	
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.			· — — — —	
15.				
16.	 			
17.	<u> </u>			
18.				
20.				
21.	 			
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.	<u> </u>			

1**A**

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17Z4

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.:

SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-13

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: OE182

Level: (low/med) LOW

Date Received: 01/16/04

% Moisture: not dec.

Date Analyzed: 01/21/04

GC Column; DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL)

CAS NO. COMPOUND

Soil Extract Volume: ____(uL)

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

75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	Ū
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	Ū
75-69-4	Trichlorofluoromethane	10	Ū
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	Ū
67-64-1	Acetone	10	US
75-15-0	Carbon Disulfide	10	Ū
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	12	₩ U
156-60-5	trans-1,2-Dichloroethene	10	Ū
1634-04-4	Methyl tert-Butyl Ether	17	U
75-34-3	1,1-Dichloroethane	10	Ū
156-59-2	cis-1,2-Dichloroethene	14	
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	Ū
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	Ū
<u>56-23-5</u>	Carbon Tetrachloride	10	Ū
71-43-2	Benzene	10	Ū
107-06-2	1,2-Dichloroethane	10	Ū

1B VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CEIMIC CORP	Contract: 68-W-03-018	B17Z4
Lab Code: CEIMIC Case No.: 32512	SAS No.: SDG No	.: B17T8
Matrix: (soil/water) WATER	Lab Sample ID: 0	40025-13
Sample wt/vol: 5.000 (g/mL) ML	Lab File ID: OE	182
Level: (low/med) LOW	Date Received: 0	1/16/04
% Moisture: not dec.	Date Analyzed: 0	1/21/04
GC Column: DB-624 ID: 0.25 (mm)	Dilution Factor:	1.0
Soil Extract Volume:(uL)	Soil Aliquot Volu	ume:(uL)

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

79-01-6	Trichloroethene	Τ		36	T
108-87-2	Methylcyclohexane	T		10	Ū
78-87-5	1,2-Dichloropropane			10	Ū
75-27-4	Bromodichloromethane			10	Ū
10061-01-5	cis-1,3-Dichloropropene			10	U
108-10-1	4-Methyl-2-Pentanone			10	Ū
108-88-3	Toluene			10	U
10061-02-6	trans-1,3-Dichloropropene			10	Ü
79-00-5	1,1,2-Trichloroethane			10	U
127-18-4	Tetrachloroethene	*	2300	1500	- E -
591-78-6	2-Hexanone			10	U 3
124-48-1	Dibromochloromethane			10	U
106-93-4	1,2-Dibromoethane			10	U .
108-90-7	Chlorobenzene			10	Ū
100-41-4	Ethylbenzene]		10	Ū
1330-20-7	Xylene (Total)			10	U
100-42-5	Styrene	T		10	U
75-25-2	Bromoform			10	Ū
98-82-8	Isopropylbenzene			_ 10	Ū
79-34-5	1,1,2,2-Tetrachloroethane			10	U
541-73-1	1,3-Dichlorobenzene			10	Ū
106-46-7	1,4-Dichlorobenzene			10	Ū
95-50-1	1,2-Dichlorobenzene			10	U
96-12-8	1,2-Dibromo-3-chloropropane			_10	Ü
120-82-1	1,2,4-Trichlorobenzene			10	Ü

y value was transferred from delution runs.

FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	B17Z4	
Į		

Lab Name: CEIMIC CORP

Contract: 68-W-03-018

Lab Code: CEIMIC Case No.: 32512 SAS No.: SDG No.: B17T8

Matrix: (soil/water) WATER

Lab Sample ID: 040025-13

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

Lab File ID: OE182

Level: (low/med) LOW Date Received: 01/16/04

% Moisture: not dec. ____

Date Analyzed: 01/21/04

GC Column: DB-624 ID: 0.25 (mm)

Number TICs found: 2

Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL)

Soil Extract Volume: ____ (uL).

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. Q
1.	UNKNOWN SILOXANE	17.60	
2.	UNKNOWN SILOXANE	20.41	10 0 🖟
3.			
4.			
5.			
6. 7.			
8.			
9.			
10.			
11.			
12.			
13			
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16. 17.			
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21. 22.			
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26.			
27. 28.			
29.			
30.			

Ryan Montalbano

From:

Bauer, Heather [Heather.Bauer@dyncorp.com]

Sent:

Tuesday, January 20, 2004 8:31 AM

To:

Henry Leibovitz (E-mail); Jennifer Robinson; Ryan Montalbano

Cc:

Jennifer Feranda (E-mail); Adly Michael (E-mail)

Subject:

Region 02 | Case 32512 | Lab CEIMIC | Issue Shipping | FINAL

Ryan,

Following is the resolution from Region 2. Per the Region, the lab should note the issue in the SDG Narrative and proceed with the analysis of sample B17X2. Please let me know if you have any additional questions or problems.

Thanks, Heather

Heather Bauer CSC Environmental Coordinator Regions 1 and 2 (703) 818-4220 heather.bauer@dyncorp.com

----Original Message----

From: Michael.Adly@epamail.epa.gov

Sent: Tuesday, January 20, 2004 8:27 AM

To: Bauer, Heather

Cc: Jennifer Feranda (E-mail)

Subject: Re: Region 02 | Case 32512 | Lab CEIMIC | Issue Shipping

Good morning Heather,

Please advise the lab to proceed with the analysis of sample B17X2, and note the issue in the SDG narrative.

Thanks.

Adly A. Michael

Region 2 - HWSB - HWSS Phone: (732) 906-6161 Fax: (732) 321-6622

"Bauer, Heather"

To: Jennifer Feranda/R2/USEPA/US@EPA, Adly Michael/R2/USEPA/US@EPA

01/16/04 02:32 PM

Subject: Region 02 | Case 32512 | Lab CEIMIC | Issue Shipping

Following is an email from CEIMIC regarding Case 32512. The lab is reporting that of the three VOA containers for aqueous sample B17X2 in Case 32512, one container arrived empty and another container arrived frozen. The lab can proceed with the analysis of the sample on the last container, but they will not have sufficient volume if reanalysis is required. Please advise on how the lab should proceed.

Thanks, Heather

Heather Bauer CSC Environmental Coordinator Regions 1 and 2 (703) 818-4220 heather.bauer@dyncorp.com

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delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

runciación dubional, barmacana, and and an a municipal barbone.

----Original Message----

From: Ryan Montalbano

Sent: Friday, January 16, 2004 2:32 PM

To: Heather Bauer (E-mail)

Subject: Case 32512 sample receiving issue

Hi Heather,

Of the three VOA containers for aqueous sample B17X2 in Case 32512, one container arrived empty and another container arrived frozen. Analysis can proceed as scheduled on the last container; there will only be a problem if a reanalysis is required. If that happens, I will let you know.

Thanks, -Ryan

Ryan Montalbano
Supervisor, Inorganic Chemistry Laboratories
Ceimic Corporation
10 Dean Knauss Drive
Narragansett, RI 02882
(401)782-8900
Fax (401)782-8905
rmontalbano@ceimic.com

US EPA Region II Method: CLP/SOW OLM04.2 Date: March, 2001 SOP EW-6, Rev. 12

YES NO N/A

PACKAGE COMPLETENESS AND DELIVERABLES

CASE	NUMBE	R: 32512	LABORATORY:	CEIM	1 C	-
SITE	NAME:	STANTON CLEAMERS	SDG Number(s): _	BITT	8	-
1.0 <u>c</u>	<u>hain</u>	of Custody and Sampling Trip	n Reports			
	1.1	Are the Traffic Reports/Chapresent for all samples?	ain-of-Custody Re	cords	ц	
	ACTIO	N: If no, contact RSCC, or obtain replacement of mis copies from the lab.			*	
;	1.2	Is the Sampling Trip Report samples and all fractions?	present for all		т <u>ү</u> —	
i	action	N: If no, contact either RSC obtain this information f contractor.) to		
2.0 <u>D</u> a	ata Co	ompleteness and Deliverables	•			
Ž	2.1	Have any missing deliverabl added to the data package?	es been received	anđ	<u>_</u> _	
Þ	NOTE:	The lab is required to submanalyses, for each fraction sample and one dilution, or dilution analyzed and one f	. (i.e., the ori	ginal rated		
I	ACTION	N: Contact the TOPO to obtain resubmittal of any missing the lab. If lab cannot pure effect on the review of the Contract Problems/Non-compata Assessment.	g deliverables fr rovide them, note he package in the	om the		
:	2.2	Was CLASS CCS checklist inc	luded with packag	e?	1/1	

US EPA Region II Method: CLP/SOW OLM04.2

Date: March, 2001 SOP HW-6, Rev. 12

				YES	МО	N/A
2	.3	Report	ere any discrepancies between the Traffic s/Chain-of-Custody Records, Sampling Report mple Tags?		1/1	
A	.CTIO	or r	es, contact the TOPO to obtain an explanation esubmittal of any missing deliverables from laboratory.	n		
3.0 <u>Co</u>	ver I	etter	SDG Narrative			
3	.1	Is the	Narrative or Cover Letter Present?	1/1		
3	.2	contain (see So EPA san documen	se number, SDG number and contract number ned in the SDG Narrative or cover letter DW, Exhibit B, section 2.6.1)? Imple numbers in the SDG, detailed netation of any quality control, sample,			
		-	nt, and/or analytical problems encountered cessing the samples? Corrective action	i d		
3	.3	Does th	ne narrative contain the following ation:			
		VOA:	description of trap and columns used for sample analyses?	<u>।</u>		
		VOA:	a NOTE stating whether Volatile low level soil samples prepared according to the modified SW-846 Method 5035?(p. B-9/VOA, sec 2.6.1)	<u></u>		
		VOA:	any discrepancies between low level soil weights determined in the field and in the Laboratory? (p. B-10/VOA, sec. 2.6.1)			
		BNA:	description of columns used for sample analyses?			
		Pest:	description of columns used for sample analyses?			
и	OTE:	As p	er section 6.23.3.1 SOW/p. D-11/Pest,			

US EPA Region II

Method: CLP/SOW OLM04.2

Date: March, 2001 SOP HW-6, Rev. 12

> YES NO N/A

Packed	columns	are	not	permitted.
		~- ~		POLICE COU

	I WOULD COTOURD WIT TOO DOTHER DOOR.		
3.4	Does the narrative, VOA and BNA sections, contain a list of all TIC's identified as alkanes and their estimated concentrations?	<u></u>	
3.5	Is the temperature indicator bottle present in the cooler? If not, did the Laboratory document in the SDG Narrative the alternative technique used to determine the cooler temperature? (Exhibit A/ p. A-5 sec. 4.2.1.2.3.3)	īΝ	
3.6	Does the narrative contain a record of all cooler temperatures? If the temperature of a cooler was exceeded, > 10°C, the lab must list by fraction and sample number, all affected samples.	M	
3.7	Does the Narrative contain a list of sample reanalyses submitted? Did the Lab distinguish whether the reanalysis is billable, and if so why?	€1	
3.8	Does the narrative contain a list of the pH values determined for each water sample submitted for volatile analysis (SOW Exhibit B, section 2.6.1.2)?	īĄ	
3.9	Does the Case Narrative contain the statement, "verbatim", as required in Section B of the SOW?	1/1	
አ ርጥፕለ፣	N. If "No" to any mightion in this section		

ACTION: If "No", to any question in this section, contact the TOPO to obtain all necessary resubmittals. If information is not available, document in the Data Assessment under Contract Problems/Non-Compliance section.

4.0 Data Validation Checklist

- 4.1 Check the package for the following discrepancies:
 - a. Is the package paginated in ascending order starting from the SDG narrative?

IV_1	
-	

US EPA Region II Date: March, 2001 Method: CLP/SOW OLM04.2 SOP HW-6, Rev. 12 YES NO N/A b. Are all forms and copies legible? c. Is each fraction assembled in the order set forth in the SOW? The following checklist is divided into three parts. Part A is for any VOA analyses, Part B is for BNA's and Part C is Pesticide/PCB's. Does this package contain: VOA Data? BNA Data?

ACTION: Complete corresponding parts of checklist.

Pesticide/PCB data?

US EPA Region II Method: CLP/SOW OLM04.2 Date: March, 2001 SOP HW-6, Rev. 12

YES NO N/A

PART A: VOA ANALYSES

1.0 Sample Conditions/Problems

1.1 Do the Traffic Reports/Chain-of-Custody Records, Sampling Report or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?

ACTION: If any sample analyzed as a soil, other than TCLP, contains 50% - 90% water, all data shall be flagged as estimated (J). If a soil sample other than TCLP contains more than 90% water, then qualify positive results "J", and non-detects "R".

ACTION: If samples were not iced or the ice was melted upon arrival at the laboratory and the cooler temperature was elevated (> 10° C), then flag all positive results with a "J" and all nondetects "UJ".

ACTION: If both VOA vials for a sample have air bubbles or the VOA vial analyzed had air bubbles, flag all positive results "J" and all non-detects "R".

ACTION: The smallest soil size permitted is 0.5g. If any soil sample is smaller than 0.5g, document in the Data Assessment under Contract Problems/Non-Compliance.

2.0 Holding Times

2.1 Have any VOA technical holding times, determined from date of collection to date of analysis, been exceeded?

> Technical Holding Times for AQUEOUS AND SOIL NON-ENCORE SAMPLES: If unpreserved, aqueous samples, maintained at 4° C for aromatic hydrocarbons analysis must be analyzed within 7 days of collection. If

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YES NO N/A

preserved with HCl (pH < 2) and stored at 4° C, then aqueous samples must be analyzed within 14 days of collection. If uncertain about preservation, contact sampler to determine whether or not samples were preserved. The holding time for non-Encore soils is 10 days from date of collection.

ACTION: If technical holding times for aqueous samples and soil non-Encore samples are exceeded, flag all positive results as estimated "J" and sample quantitation limits as estimated "UJ", and document in the Data Assessment that holding times were exceeded. If analyses were done more than 14 days beyond holding time, either on the first analysis or upon re-analysis, the reviewer must use professional judgement to determine the reliability of the data and the effects of additional storage on the sample results. At a minimum, all results must be qualified "J", but the reviewer may determine that non-detect data are unusable "R". If holding times are exceeded by more than 28 days, all non detect data are unusable "R".

NOTE: Contractual Holding Times: Analysis of water and Non-Encore soil samples must be completed within 10 days of Validated Time of Sample Receipt (VTSR). This requirement does not apply to Performance Evaluation (PE) samples.

Technical Holding Times for soils Encore samples:

- i) If sample was preserved ≤ 2 days of VTSR:
 - and analyzed ≤ 14 days from DoC, NO action needed.
 - 2. and analyzed > 14 days from DoC, qualify positive results "J" and non-detects "UJ".
 - 3. and analyzed > 28 days from DoC, qualify positive results "J" and non-detects "R".
- ii) If sample was NOT preserved, or preserved > 2 days of VTSR
 - 1. and analyzed ≤ 7 days from DoC, No action needled.

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YES NO N/A

- 2. and analyzed > 7 days from DoC, qualify AROMATIC analytes only, both positive and non-detects, as estimated "J".
- 3. and analyzed > 10 days from DoC, qualify ALL positive analytes "J" and ALL non-detects as "UJ".
- 4. and analyzed \geq 20 days from DoC, qualify positive results "J" and non-detects "R".

Note: CONTRACT holding times for soil Encore samples are:

- Samples must be preserved within two (2) days of VTSR and must be analyzed within ten (10) days of VTSR.
- Samples NOT preserved within two (2) days of VTSR must be analyzed within two (2) days of VTSR.

ACTION: If contractual holding times are exceeded, document in the Data
Assessment

NOTE: The data reviewer must note in the Data Assessment whether or not technical and contractual holding times were met.

Table of Holding Time Violations

(See Chain-of-Custody Records)

Sample ID	Sample Matrix	Was Sample Preserved?	Date Sampled	Date Lab Received	Date Analyzed
· · · · · · · · · · · · · · · · · · ·				-	
					
					

US EPA Region II Method: CLP/SOW OLM04.2 Date: March, 2001 SOP HW-6, Rev. 12

YES NO N/A

•					
3.0	System	Monitoring Compound (SMC) Recovery (Form II)			
	3.1	Are the VOA SMC Recovery Summaries (Form II) present for each of the following matrices:	/		
		a. Low Water?	11		
		b. Low Soil?			
		c. Med Soil?	11		0
	3.2	Are all the VOA samples listed on the appropriate System Monitoring Compound Recovery Summary for each of the following matrices:			
		a. Low Water?	1/1		
		b. Low Soil?	<u></u>		
		c. Med Soil?			_/
	ACTION	I: Contact the TOPO to obtain an explanation or resubmittal of any missing deliverables from the laboratory. If missing deliverables are unavailable, document the effect in the Data Assessment.	,		
	3.3	Were outliers marked correctly with an asterisk?	1/1		
	ACTION	: Circle all outliers with red pencil.			,
		Was one or more VOA system monitoring compound recovery outside of contract specifications for any sample or method blank?		17	
		If yes, were samples re-analyzed?			<u>/</u>
		Were method blanks re-analyzed?			

compounds fail to meet SOW specifications:

ACTION: If recoveries are ≥ 10%, but 1 or more

US EPA Region II Method: CLP/SOW OLM04.2

Date: March, 2001 SOP HW-6, Rev. 12

> N/A YES NO

- 1. All positive results are qualified as estimated "J".
- 2. Flag all non-detects as estimated detection limits "UJ" where recovery is less than the lower acceptance limit.
- 3. If SMC recoveries are above allowable levels, qualify positive results "J" and do not qualify non-detects.

If any system monitoring compound recovery is ACTION: < 10%:

- 1. Flag all positive results as estimated "J".
- 2. Flag all non-detects as unusable "R".

Professional judgement should be used to qualify data that only have method blank SMC recoveries out of specification in both original and re-analyses. Check the internal standard areas.

NOTE: Contractual requirements state that if any SMC fails the acceptance criteria, the sample must be re-analyzed. If the affected sample was not reanalyzed, document in the Data Assessment under Contract Problems/Non-Compliance.

NOTE: The laboratory must submit the following data:

- 1. If SMC recoveries and internal standard responses meet the acceptance criteria in the reanalyzed sample, then the laboratory must submit only the re-analysis.
- 2. If an SMC recovery and/or internal standard response fails to meet the acceptance criteria upon re-analysis, then submit data from both analyses.

(Refer to section 11.4.3.2, page D-45/VOA of the

US EPA Region II

Date: March, 2001

SOP HW-6, Rev. 12 Method: CLP/SOW OLM04.2 YES NO SOW for more information.) Are there any transcription/calculation errors between raw data and Form II? AS PER CAPPE AND CCS ACTION: If large errors exist, contact the TOPO to obtain an explanation or resubmittal of corrected deliverables from the laboratory. Make any necessary corrections and note the effect in the Data Assessment. 4.0 Matrix Spikes (Form III) 4.1 Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present? 4.2 Were matrix spikes analyzed at the required frequency for each of the following matrices: a. Low Water? b. Low Soil? c. Med Soil? ACTION: If any matrix spike data are missing, take the action specified in section 3.2 above. ACTION: No action is taken based upon MS/MSD data alone. However, using informed professional judgement, the MS/MSD results may be used in conjunction with other QC criteria to determine the need for qualification of the data. ACTION: Circle all outliers with red pencil. 5.0 Blanks (Form IV) Is the Method Blank Summary (Form IV) present? 5.1 Frequency of Analysis: for the analysis of VOA 5.2

TCL compounds, has a reagent/method blank been analyzed during every 12-hour time period on each

US EPA Region II Method: CLP/SOW OLM04.2 Date: March, 2001 SOP HW-6, Rev. 12

YES NO N/A

GC/MS	system,	before	any	samples,	and	for	each
matrix	c? (water,	low s	soil (or medium	soil)	

5.3 Has a VOA method blank been analyzed at least once every twelve hours for each matrix/concentration and GC/MS system used?

м ____

5.4 Was a VOA instrument blank analyzed after each sample/dilution which contained a target compound that exceeded the initial calibration range?

5.5 Was a VOA storage blank analyzed at the end of all samples for each SDG in a case?

ACTION: If any method/instrument blank data are missing, contact the TOPO to obtain any missing deliverables from the laboratory. If method blank data are not available, reject "R" all associated positive data. However, using professional judgement, the data reviewer may substitute field blank or trip blank data for missing method blank data.

If the instrument blank was not analyzed after a sample with high concentration of reported values, inspect the chromatogram of the sample analyzed immediately after this analysis for possible carryover. Use professional judgement to determine if any contamination occurred and qualify analyte(s) accordingly.

If storage blank data is missing, contact the TOPO to obtain any missing deliverables from the laboratory. If unavailable, note in the Contract Problems/Non-Compliance section of the Data Assessment.

Note: A storage blank shall be analyzed and reported as a water sample unless the SDG contains only soil samples. Then, the storage blank may be analyzed and reported as a soil sample. (p. D-49/VOA sec. 12.1.3.5)

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YES NO N/A

5.6 The validator should verify that the correct identification scheme for the EPA Blank samples were used. See page <u>B-30</u>, section 3.3.7.3 of the SOW for further information.

Was the correct identification scheme used for all VOA blanks?

<u>_____</u>

- ACTION: Contact the TOPO to obtain missing deliverables from the lab, or make the required corrections on the forms. Document in the Data Assessment under Contract Problems/Non-compliance if corrections were made by the validator.
- 5.7 Chromatography: review the blank raw datachromatograms (RICs), quant. reports or data system printouts and spectra. Is the chromatographic performance (baseline stability) for each instrument acceptable for VOA's?

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- ACTION: Use professional judgement to determine the effect on the data.
- 5.8 Are all detected hits for target compounds in method, instrument and storage blanks less than the CRQL for that analyte?

Exception: Acetone and 2-butanone must be less than 5 times the CRQL, and methylene chloride and Cyclohexane must be less than 2.5 times its CRQL. (p. D-50/VOA sec. 12.1.4.6)

ACTION: If no, an explanation and laboratory's corrective actions must be addressed in the case narrative. If the narrative contains no explanation, then make a note in the Contract Problems/Non-Compliance section of the Data Assessment.

6.0 Contamination

NOTE: "Water blanks", "drill blanks", and "distilled water blanks" are validated like any other sample, and are not used to qualify data. Do not

US EPA Region II Method: CLP/SOW OLM04.2

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YES NO N/A

confuse them with the other QC blanks discussed below.

- 6.1 Do any method/instrument/reagent/storage blanks have positive results (TCL and/or TIC) for VOA's?
- NOTE: When applied as directed in the table below, the contaminant concentration in these blanks are multiplied by the sample dilution factor and corrected for *moisture when necessary.
- NOTE: A contaminated instrument blank is not allowable under this SOW. The instrument blank must meet the technical acceptance criteria for blank analyses (sec. 12.1.4). See page D-48/VOA, section 12.1.2.4 for additional information. Document in the Data Assessment under Contract Problems/Non-Compliance if contaminated instrument blank was submitted.
- 6.2 Do any field/trip/rinse blanks have positive VOA results (TCL and/or TIC)?

- ACTION: Prepare a list of the samples associated with each of the contaminated blanks. (Attach a separate sheet.)
- NOTE: All field blank results associated with a particular group of samples (may exceed one per case) must be used to qualify data. Trip blanks are used to qualify only those samples with which they were shipped and are not required for non-aqueous matrices. Blanks may not be qualified because of contamination in another blank. Field Blanks & Trip Blanks must be qualified for system monitoring compound, instrument performance criteria, spectral or calibration, and Internal standard QC problems.
- ACTION: Follow the directions in the table below to qualify TCL results due to contamination. Use the largest value from all the associated blanks. If any blanks are grossly contaminated, all associated data should be

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YES NO N/A

qualified as unusable "R".

NOTE: Analytes qualified "U" for blank contamination are till considered as "hits" when qualifying for calibration criteria.

ACTION: For TIC compounds, if the concentration in the sample is less than five times the concentration in the most contaminated associated blank, flag the sample data "R".

For:	Flag sample result with a "U" when: NDS	Report CRQL & qualify "U" when:	No qualification is needed when:
Methylene Chloride Acetone Toluene 2-Butanone Cyclohexan	Sample conc. is > CRQL, but ≤ 10x blank value.	Sample conc. is < CRQL and ≤ 10× blank value.	Sample conc. is > CRQL and > 10x blank value.
Other Conta- minants	Sample conc. is > CRQL, but ≤ 5x blank value.	Sample conc. is < CRQL and ≤ 5x blank value.	Sample conc. is > CRQL and > 5x blank value.

6.3 Are there field/rinse/equipment blanks associated with every sample?

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ACTION: For low level samples, note in the Data
Assessment that there is no associated
field/rinse/equipment blank. For samples with
high concentrations of suspected blank
contaminants, use professional judgement to
qualify these values and make a note in the
Data Assessment.

Exception: samples taken from a drinking water tap do not have associated field blanks.

7.0 GC/MS Instrument Performance Check (Form V)

US EPA Region II Method: CLP/SOW OLM04.2

Date: March, 2001

SOP HW-6, Rev. 12 YES NO N/A 7.1 Are the GC/MS Instrument Performance Check Forms (Form V) present for Bromofluorobenzene (BFB)? Are the enhanced bar graph spectrum and 7.2 mass/charge (m/z) listing for the BFB provided for each twelve hour shift? Is the mass spectrum of BFB acquired according to 7.3 sec. 9.2.4.1 D-23/VOA? Note: Sec. 9.2.4.1 states that "the mass spectrum of BFB MUST be acquired in the following manner. Three scans (the peak apex scan and the scans immediately preceding and following the apex) are acquired and averaged. Background subtraction is required, and MUST be accomplished using a single scan no more than 20 scans prior to the elution of BFB. DO NOT background subtract part of the BFB peak." See Attachment 2 for BFB criteria. Action: If not, reject "R" all samples associated with that particular BFB. 7.4 Has an instrument performance check been analyzed for every analytical sequence on each instrument? ACTION: List date, time, instrument ID, and sample numbers for which associated GC/MS tuning data are unavailable. DATE TIME INSTRUMENT SAMPLE NUMBERS

ACTION: Notify the TOPO to obtain missing data, if possible. If the lab cannot provide the missing data, reject, "R", all data generated outside an acceptable twelve hour calibration interval.

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YES NO N/A

7.5 Have the ion abundances been normalized to m/z 95 as specified in Exhibit D, page D-56/VOA? AS IED CADLE AND CCS	īΝ		
NOTE: All ion abundance ratios must be normalized to m/z 95, the nominal base peak, even though the ion abundance of m/z 174 may be up to 120% that of m/z 95.			
ACTION: If mass assignment is in error, qualify all associated data as unusable "R".			
7.6 Have the ion abundance criteria been met for each instrument used? As FER CADLE AND CCS	1/1		
ACTION: List all data which do not meet ion abundance criteria (attach a separate sheet).			
ACTION: If ion abundance criteria are not met, the Region II TPO must be notified.			
7.7 Are there any transcription/calculation errors between mass lists and Form Vs? (Check at least two values, but if errors are found check more.) As FET CAPPE AND CCS		N	
7.8 Is the number of significant figures for the reported relative abundances consistent with the number given for each ion in the ion abundance criteria column?	ПĮ		
ACTION: If large errors exist, take action as specified in section 3.5 above.			
7.9 Are the spectra of the mass calibration compound acceptable?	1/1		
ACTION: Use professional judgement to determine whether associated data should be accepted, qualified, or rejected.		·	

8.0 Target Compound List (TCL) Analytes (FORM I VOA)

8.1 Are the Organic Analysis Data Sheets (Form I VOA) present with required header information on each page, for each of the following:

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		YES	ио	N/A
	a. Samples and/or fractions as appropriate?	Sh		
		161		
	b. Matrix spikes and matrix spike duplicates?	10		
	c. Blanks?	[7]		
8.2	Are the VOA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (quant. reports) included in the sample package for each of the following:	,		.*
	a. Samples and/or fractions as appropriate?	17		
	b. Matrix spikes and matrix spike duplicates (mass spectra not required)?	17		
	c. Blanks?	17्र		
ACTI(ON: If any data are missing, take action specified in 3.2 above.			
8.3	Is chromatographic performance acceptable with respect to:			
	a. Baseline stability?	11		·
	b. Resolution?	17		
	c. Peak shape?	叹.	- -	
	d. Full-scale graph (attenuation)?	11.		
	e. Other:?	Ц.	-	
ACTIO	N: Use professional judgement to determine the acceptability of the data.			
8.4	Are the lab-generated standard mass spectra of the identified VOA compounds present for each sample? AS PER CADRE AND CLS	<u></u>		
ACTIO	ON: If any mass spectra are missing, take action as specified in 3.2 above. If the lab does not		•	

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YES NO N/A

generate its own standard spectra, document in the Contract Problems/Non-compliance section of the Data Assessment.

8.5	is the RRT of each reported compound	within 0.06
	RRT units of the standard RRT in the	continuing
	calibration? As PER CADRE AND CCS	

8.6 Are all ions present in the standard mass spectrum at a relative intensity greater than 10% also present in the sample mass spectrum?

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8.7 Do sample and standard relative ion intensities agree within ±20%? AS FER CADRE AND CCS.

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ACTION: Use professional judgement to determine acceptability of data. If it is determined that incorrect identifications were made, all such data should be rejected "R", flagged "N" (presumptive evidence of the presence of the compound) or changed to not detected "U" at the calculated detection limit. In order to be positively identified, the data must comply with the criteria listed in 8.5, 8.6, and 8.7.

ACTION: When sample carry-over is suspected, use professional judgement determine if instrument cross-contamination has affected positive compound identifications.

9.0 Tentatively Identified Compounds (TIC)

9.1 Are all Tentatively Identified Compound Forms (Form I Part B) present; and do listed TIC's include scan number or retention time, estimated concentration and "JN" qualifier?

9.2 Are the mass spectra for the TIC's and associated "best match" spectra included in the sample package for each of the following:

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a. Samples and/or fractions as appropriate?

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b. Blanks?

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	YES	NO	N/A
c. Are Alkanes listed in/or part of the Case Narrative?	TJ		<u> </u>
ACTION: If any TIC data are missing, take action specified in 3.2 above. ACTION: Add "JN" qualifier to all chemically named			
TIC's, if missing. 9.3 Are any TCL compounds (from any fraction including all PCB congeners) listed as TIC compounds? (Example: 1,2- dimethylbenzene is xylene, a VOA TCL analyte, and should not be reported as a TIC.)		ПĄ	
ACTION: Flag with "R" only TCL compound detected in another fraction. (Except blank contaminants) 9.4 Are any TIC's reported earlier than 30 sec before the first purgeable compound, or three (3) min. after the last purgeable compound listed in Exhibit C (Volatiles)? As fer LADRE AND CCS		1X	
ACTION: Flag with "R" any TIC compound reported. (p. D38-VOA, sec. 11.1.2.2)			
9.5 Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum? As FER CADLE AND (C)	id		
9.6. Do TIC and "best match" standard relative ion intensities agree within ±20%? As fel CAOLE AND CCS	īΛ		
ACTION: Use professional judgement to determine the acceptability of TIC identifications. If it is determined an incorrect identification was made, change the identification to "unknown," or to some less specific identification as appropriate. (Example: "C3 substituted benzene.")			
Also, when a compound is not found in any blank, but is detected in a sample and is a			

suspected artifact of a common laboratory

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YES NO NA

contaminant, the result should be qualified as unusable "R". (E.g., Common Lab Contaminants: CO_2 (M/E 44), Siloxanes (M/E 73) hexane, aldol condensation products, solvent preservatives, and related by-products.

9.7 Are TIC's with responses < 10% of the internal standard (as determined by inspection of the peak areas or height) reported? As lea CADAL AND CCS

ACTION: If yes, cross out questionable TIC's.

10.0 Compound Quantitation and Reported Detection Limits

- 10.1 Are there any transcription/calculation errors in Form I results? (Check at least two positive values. Verify that the correct internal standards, quantitation ions, and RRF were used to calculate Form I results.) As PER CAPPE AND CCS
- 10.2 Are the CRQL's adjusted to reflect sample dilutions and, for soils, sample moisture?

ACTION: If errors are large, take action as specified in section 3.2 above.

ACTION: When a sample is analyzed at more than one dilution, the lowest CRQL's are used (unless a QC exceedance dictates the use of the higher CRQL data from the diluted sample). Replace concentrations that exceeded the calibration range in the original analysis by crossing out the "E" and its corresponding value on the original Form I and substituting the data from the diluted sample. Specify which Form I is to be used, then draw a red "X" across the entire page of all Form Is not to be used, including any in the data summary package.

11.0 Standards Data (GC/MS)

11.1 Are the Reconstructed Ion Chromatograms, and data system printouts (quant. reports) present for each initial and continuing calibration?

131	

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YES NO N/A

ACTION: If any calibration standard data are missing, take action specified in 3.2 above.

12.0 GC/MS Initial Calibration (Form VI)

12.1 Are the Initial Calibration Forms (Form VI) present and complete at concentrations of 10, 20, 50, 100, 200ng for separate calibrations of low water/med soils (unheated purge) and low soils (heated purge)?

ACTION: If any calibration standard forms are missing, take action specified in 3.2 above.

12.2 Were all low level soil standards, blanks and samples analyzed by heated purge?

ACTION: If low level soil samples were not heated during purge, qualify positive hits "J" (estimated) and non-detects "R".

12.3 Are the % relative standard deviation (%RSD) values for VOA's ≤ 30% over the concentration range of the calibration?

TA ____

NOTE: Although 23 VOA compounds have a contractual minimum RRF and no maximum %RSD, the technical acceptance criteria are the same for all analytes.

ACTION: Circle all outliers with red pencil.

ACTION: If %RSD is > 30.0%, qualify associated positive results for that analyte "J" (estimated). Do not qualify non-detects. When %RSD is > 90%, flag all non-detects for that analyte "R" (unusable) and positive hits "J".

NOTE: Analytes previously qualified "U" for blank contamination are still considered as "hits" when qualifying for initial calibration criteria.

12.4 Are any average RRFs < 0.05?

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YES NO N/A

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ACTION: Circle all outliers with red pencil.

ACTION: If the average RRF is < 0.05, then qualify associated non-detects with an "R" and flag associated positive data as estimated "J".

NOTE: Contract Requirement: The SOW allows up to two of the required analytes to fail contractual %RSD or RRF criteria, provided the %RSD is ≤ 40% and RRF is ≥ 0.010. (See Table 5, page D-61/VOA and analytes marked with a "*" on Form VI for required analytes and contractual criteria.) Technical criteria, however, are the same for all analytes.

ACTION: If more than two analytes failed %RSD or RRF criteria, document in the Data Assessment under Contract Problems/Non-Compliance.

12.5 Are there any transcription/calculation errors in the reporting of average relative response factors (RRF) or %RSD? (Check at least 2 values, but if errors are found, check more.)

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ACTION: Circle errors with red pencil.

ACTION: If errors are large, contact the TOPO to obtain an explanation/resubmittal from the lab, document in the Data Assessment under Contract Problems/Non-Compliance.

13.0 GC/MS Continuing Calibration (Form VII)

- 13.1 Are the Continuing Calibration Forms (Form VII) present and complete for separate calibration of low water/med soil and low soil samples?
- 13.2 Has a continuing calibration standard been analyzed for every twelve hours of sample analysis per instrument?

ACTION: If any forms are missing or no continuing calibration standard has been analyzed within twelve hours of every sample analysis, contact

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YES NO N/A

the TOPO to request an explanation/resubmittal from the lab. If continuing calibration data are not available, flag all associated sample data as unusable "R".

ACTION: List below all sample(s) that were not analyzed within twelve hours of the previous continuing calibration.

13.3 Do any volatile compounds have a percent difference (%D) between the initial and continuing RRF which exceeds the ±25% criteria?

NOTE: Although <u>23</u> VOA compounds have a contractual minimum RRF and no maximum %D, the technical acceptance criteria are the same for all analytes.

ACTION: Circle all outliers with red pencil.

ACTION: Qualify both positive results and non-detects for the outlier compound(s) as estimated. When %D is > 90%, qualify all non-detects for that analyte unusable (R) and positive results estimated (J) .

13.4 Are any continuing calibration RRFs < 0.05?

ACTION: Circle all outliers with red pencil.

ACTION: If the RRF is < 0.05, qualify the associated non-detects as unusable "R" and the associated positive values "J".

NOTE: Contract Requirement: The SOW allows up to two of the required analytes to fail contractual %D and RRF criteria, provided that the %D is ≤ 40% and the RRF is ≥ 0.010. (See Table 5 pg. D-61/VOA or

Date: March, 2001 US EPA Region II SOP HW-6, Rev. 12 Method: CLP/SOW OLM04.2 YES NO N/A analytes marked with a "*" on Form VI for required analytes.) Technical criteria, however, are the same for all analytes. ACTION: If more than two analytes failed %D and RRF, criteria document in the Data Assessment under contract Problems/Non-Compliance. 13.5 Are there any transcription/calculation errors in the reporting of RRF or %D between initial and continuing RRFs? (Check at least two values, but if errors are found, check more.)
AS PER CADRE AND CCS PEPOLT. ACTION: Circle errors with red pencil. ACTION: If errors are large, contact the TOPO to obtain an explanation/resubmittal from the lab, document in the Data Assessment under Contract Problems/Non-Compliance. 14.0 Internal Standard (Form VIII) 14.1 Are the internal standard areas (Form VIII) of every sample and blank within the upper and lower limits (-50% to +100%) for each continuing calibration? As PER CAPRE AND CCS. If no, was the sample re-analyzed? ACTION: 1. Circle all outliers with red pencil. 2. List all the outliers below. Internal Std. Sample # Area Lower/Upper Limit

(Attach additional sheets if necessary, or attach copies of Form VIIIs.)

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YES NO N/A

ACTION: If any sample was not re-analyzed, document in the Data Assessment under Contract Problems/Non-Compliance.

- ACTION: 1. If the internal standard area count is outside the upper or lower limit, flag with "J" all positive results quantitated with this internal standard.
 - 2. Do not qualify non-detects when associated IS area counts are > 100%.
 - 3. If the IS area in the sample is below the "lower limit," < 50%, qualify all analytes associated with that IS estimated, "J". If the area counts are extremely low, < 25% of the area in the 12 hour standard, or if performance exhibits a major abrupt drop- off, flag all associated non-detects as unusable, "R", and positive hits estimated, "J".
- 14.2 Are the retention times of the internal standards within 30 seconds of the associated calibration standard? As fer CABBRE and CCS

ACTION: Professional judgement should be used to qualify data if the retention times differ by more than 30 seconds.

NOTE: Contractual requirements state that if any internal standard fails the acceptance criteria, the sample must be re-analyzed. If the affected sample was not re-analyzed, document in the Data Assessment under Contract Problems/Non-Compliance.

15.0 Field Duplicates

15.1 Were any field duplicates submitted for VOA analysis?

ACTION: Compare the reported results for field duplicates and calculate the relative percent difference.

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YES NO N/A

ACTION: Any gross variation between duplicate results must be addressed in the reviewer narrative. However, if large differences exist, identification of field duplicates should be confirmed by contacting the sampler.

61718 2 OK B1724 J



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION II EDISON. NEW JERSEY 08837

HAR 0 1 2004

Mr. David Miller Environmental Chemical Corporation 1293 Broad Street Bloomfield, New Jersey 07003

Dear Mr. Miller:

Enclosed are the results of the Stanton Cleaners sampling survey conducted by your firm on January 13-16, 2004. Any correspondence concerning these results should refer to our internal project number, 04010034 to uniquely identify the data. Please refer to the first page of the report for a description of any remark codes used as data qualifiers. It should be noted that all data are considered to be EPA- validated.

If you have any questions you can contact me by phone at (732) 906-6886, by fax at (732) 906-6165 or via the Internet at "birri.john@epa.gov".

Sincerely,

John Birri

Special Projects Coordinator

Laboratory Branch

Enclosure



U.S. Environmental Protection Agency Region 2 Laboratory

Data Report: Stanton Cleaners
Project Number: 04010034

Program: Y206

Project Leader: JOHN HUISMAN

Remark Codes	Explanation
U	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT.
.J	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE: THE REPORTED VALUE IS AN ESTIMATE.
UJ	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT. THE REPORTING LIMIT IS AN ESTIMATE.
N	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION.
NJ	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION. THE REPORTED VALUE IS AN ESTIMATE.
R	THE PRESENCE OR ABSENCE OF THE ANALYTE CANNOT BE DETERMINED FROM THE DATA DUE TO SEVERE QUALITY CONTROL PROBLEMS. THE DATA ARE REJECTED AND CONSIDERED UNUSABLE.
К	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED HIGH. THE ACTUAL VALUE IS EXPECTED TO BE LESS THAN THE REPORTED VALUE
L	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED LOW. THE ACTUAL VALUE IS EXPECTED TO BE GREATER THAN THE REPORTED VALUE.
NV	NOT VALIDATED
INC	RESULT NOT ENTERED

Project Number: 04010034

*Sorted By Sample 1D

mg/L

AF00097

Field/Station ID: MB17T3

Date Received: 1/14/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Remark CAS Number Analyte Name Codes Result

Units 471-34-1 ALKALINITY, TOT. mg/L

SULFIDE 18496-25-8

AF00098

Field/Station ID: MB17T4

Date Received: 1/14/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Codes Result CAS Number Units Analyte Name

18496-25-8 SULFIDE

0.050U mg/L

Remark_

0.050U

AF00099

Field/Station ID: MB17T5

Date Received: 1/14/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Remark

Codes Result CAS Number Analyte Name <u>Units</u> 471-34-1 ALKALINITY, mg/L

mg/L 18496-25-8 SULFIDE 0.050U

AF00100

Field/Station ID: MB17T6

Date Received: 1/14/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Remark.

mg/L

Codes **Units** Analyte Name Result CAS Number 471-34-1 ALKALINITY, TOT .mg/L 0.050U

SULFIDE 18496-25-8

Refer to Page 1 for an explanation of Remark Codes

Report Date: 2/23/2004 1:43PM Page 2 of 20

Project Number: 04010034

*Sorted By Sample ID

AF00101

Field/Station ID: MB17T7

Matrix: Aqueous

Sample Description:

Date Received: 1/14/2004

Single Component Analyses

18496-25-8

CAS Number Analyte Name

ALKALINITY, TOT.

SULFIDE

Remark

Result

Codes

Units

mg/L 0.050U mg/L

AF00102

Field/Station ID: MB17W4

Matrix: Aqueous

Sample Description:

Date Received: 1/14/2004

Single Component Analyses

CAS Number

Analyte Name 471-34-1

18496-25-8

ALKALINITY, TOT.

SULFIDE

Result

me/L

0.050U

AF00103

Field/Station ID: MB17W6

Matrix: Aqueous

Sample Description:

Remark

Codes

<u>Units</u>

mg/L

Date Received: 1/14/2004

Single Component Analyses

CAS Number Analyte Name

471-34-1 ALKALINITY, TOT.

Result

Remark Codes

<u>Units</u>

18496-25-8

SULFIDE

*100 --

c**itys** than an each 0.050U

mg/L mg/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 2/23/2004 1:43PM Page 3 of 20

Project Number: 04010034

*Sorted By Sample ID

AF00104

Field/Station ID: MB1725

Date Received: 1/14/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

CAS Number Analyte Name Remark_

Codes

Result

Units mg/L

mg/L

18496-25-8

SULFIDE

100

0.050U

AF00105

Field/Station ID: B17T3

Date Received: 1/14/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Remark

CAS Number Analyte Name

Result

Codes

Units

10-19-5 ORGANIC CARBON, TOT

AF00106

Field/Station ID: B17T4

Date Received: 1/14/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Remark

CAŞ Number

Analyte Name

Result

Codes **Units**

10-19-5

ORGANIC CARBON, TOT.

1.3

mg/L

AF00107

Field/Station ID: B17T5

Date Received: 1/14/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

CAS Number Analyte Name

Remark_

Result

Codes Units

#10-19-5 , HIS ORGANIC CARBONI TOTAL BOOK STORE TO THE STORE THE S

Refer to Page 1 for an explanation of Remark Codes

Report Date: 2/23/2004 1:43PM

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Project Number: 04010034

*Sorted By Sample ID

AF00108

Field/Station ID: B17T6

Matrix: Aqueous

Date Received: 1/14/2004

Sample Description:

Single Component Analyses

CAS Number 10-19-5

Analyte Name

ORGANIC CARBON, TOT.

Remark

Codes Result

1.5

Units mg/L

AF00109

Field/Station ID: B17T7

Matrix: Aqueous

Sample Description:

Date Received: 1/14/2004

Single Component Analyses

CAS Number Analyte Name

Remark

Codes

10-19-5 CORGANIC CARBON FLOT

Result

Units

AF00110

Field/Station ID: B17W4

Matrix: Aqueous

Sample Description:

Date Received: 1/14/2004

Single Component Analyses

CAS Number Analyte Name

10-19-5

ORGANIC CARBON, TOT.

Result

Remark_

Codes

Units

1.7

mg/L

AF00111

Field/Station ID: B17W6

Matrix: Aqueous

Sample Description:

Date Received: 1/14/2004

Single Component Analyses

Remark

CAS Number Analyte Name

Result

Codes

10-19-54 Liver ORGANIC CARBON, TOT.

Units

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Project Number: 04010034

*Sorted By Sample ID

AF00112

Field/Station ID: B17Z5

Matrix: Aqueous

Date Received: 1/14/2004

Sample Description:

Single Component Analyses

CAS Number Analyte Name

10-19-5

ORGANIC CARBON, TOT.

Remark_

Codes

Result

2.4

Units mg/L

AF00113

Field/Station ID: MB17W8

Matrix: Aqueous

Sample Description:

Date Received: 1/16/2004

Single Component Analyses

CAS Number

18496-25-8

Analyte Name

471-34-1 ALKALINITY FORE

SULFIDE

Result

Remark Codes

Units

0.050U mg/L

AF00114

Field/Station ID: B17W8

Matrix: Aqueous

Sample Description:

Date Received: 1/16/2004

Single Component Analyses

CAS Number Analyte Name

** NO.19-5 - ORGANIC CARBON, TOT

Remark_

Codes

Units

me/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 2/23/2004 1:43PM

Project Number: 04010034

*Sorted By Sample ID

AF00119

Field/Station ID: MB17W5

Date Received: 1/16/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Remark

0.050U ···

CAS Number Analyte Name

Result

Codes <u>Units</u>

471-34-I

ALKALINITY, TOT.

mg/L

18496-25-8 SULFIDE () () () ()

51

:::::mg/L₂,·····

AF00120

Field/Station ID: MB17W7

Date Received: 1/16/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Remark_

CAS Number

Analyte Name

Result

Codes

<u>Units</u>

471-34-1

75

mg/L

18496-25-8 T. SECREDE

ALKALINITY, TOT.

mg/L

AF00121

Field/Station ID: MB17W9

Date Received: 1/16/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Remark

CAS Number Analyte Name

Result

Codes

471-34-1

ALKALINITY, TOT.

92

mg/L

mg/L

<u>Units</u>

Refer to Page 1 for an explanation of Remark Codes Report Date: 2/23/2004 1:43PM

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Project Number: 04010034

*Sorted By Sample 1D

AF00122

Field/Station ID: MB17X0

Matrix: Aqueous

Date Received: 1/16/2004

Sample Description:

Single Component Analyses

Remark

Codes

Units

CAS Number 471-34-1

ALKALINITY, TOT.

Analyte Name

Result

mg/L

18496-25-8 SULFIDE

55

mg/L

AF00123

Field/Station ID: MB17X3

Date Received: 1/16/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Remark

CAS Number Analyte Name

Result

Codes

471-34-1

ALKALINITY, TOT.

76

Units mg/L

18496-25-8 SULFIDE

mg/L

AF00124

Field/Station ID: MB17X4

Date Received: 1/16/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Remark_

CAS Number Analyte Name

Result

Codes **Units**

471-34-1

ALKALINITY, TOT.

17

mg/L

mg/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 2/23/2004 1:43PM

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Project Number: 04010034

*Sorted By Sample ID

AF00125

Field/Station ID: MB17X9

Date Received: 1/16/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Remark

Codes

0.050U

CAS Number Analyte Name 471-34-1

ALKALINITY, TOT.

Result

61

mg/L

Units

18496-25-8 SULFIDE

mg/L

AF00126

Field/Station ID: MB17Y1

Date Received: 1/16/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Remark_

CAS Number 471-34-1

Analyte Name

Result

Codes

Units

ALKALINITY, TOT.

57

mg/L

18496-25-8 SULFIDE

0.050U

mg/L

AF00127

Field/Station ID: B17W5

Date Received: 1/16/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Remark_

CAS Number

Analyte Name

Result

Codes

10-19-5

ORGANIC CARBON, TOT.

1.7

<u>Units</u> mg/L

lefer to Page 1 for an explanation of Remark Codes

Report Date: 2/23/2004 1:43PM Page 9 of 20

Project Number: 04010034

*Sorted By Sample ID

AF00128

Field/Station ID: B17W7

Matrix: Aqueous

Date Received: 1/16/2004

Sample Description:

Single Component Analyses

Remark_

CAS Number

Analyte Name

Result

Codes

Units

10-19-5 ORGANIC CARBON, TOT...

mg/L

AF00129

Field/Station ID: B17W9

Matrix: Aqueous

Sample Description:

Date Received: 1/16/2004

Single Component Analyses

Remark_

CAS Number Analyte Name

Result

Codes

10-19-5

ORGANIC CARBON, TOT.

2.3

Units mg/L

AF00130

Field/Station ID: B17X0

Date Received: 1/16/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Remark Codes

CAS Number Analyte Name

Result

<u>Units</u>

10-19-5

ORGANIC CARBON, TOT.

1.7

mg/L

AF00131

Field/Station ID: B17X3

Date Received: 1/16/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Remark

CAS Number

Analyte Name

Result 1.9

Codes

<u>Units</u>

10-19-5

ORGANIC CARBON, TOT.

mg/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 2/23/2004 1:43PM

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Project Number: 04010034

*Sorted By Sample ID

AF00132

Field/Station ID: B17X4

Matrix: Aqueous

Sample Description:

Date Received: 1/16/2004

Single Component Analyses

CAS Number Analyte Name

Result

10-19-5 ORGANIC CARBON, TOT

Remark_

<u>Co</u>des

Units mg/L

AF00133

Field/Station ID: B17X9

Matrix: Aqueous

Sample Description:

Date Received: 1/16/2004

Single Component Analyses

CAS Number Analyte Name

10-19-5

ORGANIC CARBON, TOT.

Remark

Codes Result

2.0

Units

mg/L

AF00134

Field/Station ID: B17Y1

Matrix: Aqueous

Sample Description:

Date Received: 1/16/2004

Single Component Analyses

CAS Number Analyte Name Remark_

Codes

10-19-5

ORGANIC CARBON, TOT

Units

<u>Units</u>

AF00135

Field/Station ID: MB17T8

Date Received: 1/16/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Remark_ CAS Number Analyte Name <u>Codes</u> Result

18496-25-8 **SULFIDE** 0.050U mg/L 471-34-1 AEKALINITY, TOT. mg/L

Refer to Page 1 for an explanation of Remark Codes Report Date: 2/23/2004 1:43PM

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Project Number: 04010034

*Sorted By Sample ID

AF00136

Field/Station ID: MB17T9

Matrix: Aqueous

Date Received: 1/16/2004

Sample Description:

Single Component Analyses

Remark

CAS Number Analyte Name Result

Codes

Units

18496-25-8 471-34-1 **SULFIDE** ALKALINITY, TOT.

0.050U

mg/L mg/L

AF00137

Field/Station ID: MB17W0

Date Received: 1/16/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Remark Codes

<u>Units</u>

CAS Number 18496-25-8

SULFIDE

Analyte Name

Result

0.050U

mg/L

471-34-1 ALKALINITY, TOT

mg/L

AF00138

Field/Station ID: MB17W1

Matrix: Aqueous

Sample Description:

Date Received: 1/16/2004

Single Component Analyses

CAS Number Analyte Name

Remark_ Codes

18496-25-8

SULFIDE

Result

0.050U

and the said

Units mg/L

471-34-1 ALKALINITY, TOT

mg/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 2/23/2004 1:43PM

Project Number: 04010034

*Sorted By Sample ID

AF00139

Field/Station ID: MB17W3

Matrix: Aqueous

Date Received: 1/16/2004

Sample Description:

Single Component Analyses

Remark

CAS Number Analyte Name

Result

Codes

<u>Units</u>

18496-25-8

SULFIDE A71-34-1 ALKALINITY, TOT.

0.050U

mg/L mg/L

AF00140

Field/Station ID: MB17X1

Date Received: 1/16/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Remark

CAS Number

Analyte Name

Result

Codes

18496-25-8

SULFIDE

0.050U

<u>Units</u>

471-34-1

ALKALINITY, TOT.

mg/L mg/L

AF00141

Field/Station ID: MB17X2

Date Received: 1/16/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Remark_

CAS Number

Analyte Name **SULFIDE**

Result

<u>Codes</u>

18496-25-8

0.050U

Units mg/L

mg/L

Refer to Page 1 for an explanation of Remark Codes

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Project Number: 04010034

*Sorted By Sample ID

AF00142

Field/Station ID: MB17X6

Matrix: Aqueous

Sample Description.

Date Received: 1/16/2004

Single Component Analyses

18496-25-8

CAS Number Analyte Name

471-34-1

SULFIDE

ALKALINETY, TOTAL

Remark

Codes 0.050U

<u>Units</u>

Result

mg/L mg/L

AF00143

Field/Station ID: MB17X8

Date Received: 1/16/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

CAS Number

Analyte Name

18496-25-8

SULFIDE

471-34-1 ALKALINITY, TOT.

Remark

Codes

0.050U

Units mg/L

Result

me/L

AF00144

Field/Station ID: MB17Z4

Matrix: Aqueous

Sample Description:

Date Received: 1/16/2004

Single Component Analyses

CAS Number Analyte Name

SULFIDE

Result

Remark

<u>Codes</u>

<u>Units</u> mg/L

18496-25-8

471-34-1 ALKALINITY: TOT. THE BEST OF THE

0.050U

Project Number: 04010034

*Sorted By Sample ID

AF00145

Field/Station ID: B17T8

Matrix: Aqueous

Sample Description:

Date Received: 1/16/2004

Single Component Analyses

CAS Number Analyte Name

10-19-5

ORGANIC CARBON, TOT.

Result

Remark Codes

<u>Units</u>

2:3

1.6

Result

2.0

mg/L

AF00146

Field/Station ID: B17T9

Date Received: 1/16/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

CAS Number Analyte Name

10-19-5

ORGANIC CARBON, TOT.

Remark_ Result

Codes

Units

mg/L

AF00147

Field/Station ID: B17W0

Matrix: Aqueous

Sample Description:

Date Received: 1/16/2004

Single Component Analyses

CAS Number

10-19-5

Analyte Name

ORGANIC CARBON, TOT.

Remark '

Codes

Units

mg/L

AF00148

Field/Station ID: B17W1

Date Received: 1/16/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Result

Remark <u>Codes</u>

Units

CAS Number Analyte Name

10-19-5 · ORGANIC CARBON, TOT.

mg/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 2/23/2004 1:43PM

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Project Number: 04010034

*Sorted By Sample ID

AF00149

Field/Station ID: B17W3

Matrix: Aqueous

Sample Description:

Date Received: 1/16/2004

Single Component Analyses

Analyte Name CAS Number

10-19-5

ORGANIC CARBON, TOT.

Remark

Result

1.5

Codes

<u>Units</u>

mg/L

AF00150

Field/Station ID: B17X1

Matrix: Aqueous

Sample Description:

Date Received: 1/16/2004

Single Component Analyses

CAS Number Analyte Name

Remark Result

Codes

Units

10-19-5 ORGANIC CARBON, TOT.

AF00151

Field/Station ID: B17X2

Matrix: Aqueous

Sample Description:

Date Received: 1/16/2004

Single Component Analyses

CAS Number

Analyte Name

10-19-5

ORGANIC CARBON, TOT.

Remark

Result

1.2

Result

Codes

Units

mg/L

AF00152

Field/Station ID: B17X6

Matrix: Aqueous

Sample Description:

Date Received: 1/16/2004

Single Component Analyses

CAS Number Analyte Name

ORGANIC CARBON, TOT. 10-19-5

Remark

Codes

Units mg/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 2/23/2004 1:43PM

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Project Number: 04010034

*Sorted By Sample ID

AF00153

Field/Station ID: B17X8

Matrix: Aqueous

Sample Description:

Date Received: 1/16/2004

Single Component Analyses

CAS Number Analyte Name

10-19-5 ORGANIC CARBON, TOT. Remark

Codes Result

Units mg/L

AF00154

Field/Station ID: B17Z4

Matrix: Aqueous

Sample Description:

Date Received: 1/16/2004

Single Component Analyses

CAS Number Analyte Name

Remark

Result

3.3

Units

10-19-5 ORGANIC CARBON, TOT.

mg/L

AF00155

Field/Station ID: MB17W2

Date Received: 1/20/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

CAS Number Analyte Name

ALKALINITY, TOT.

Result

Remark

Codes

<u>Codes</u>

Units

mg/L mg/L

471-34-1

18496-25-8 SULFIDE

0.050U

Refer to Page 1 for an explanation of Remark Codes

Report Date: 2/23/2004 1:43PM

Survey Name: Stanton Cleaners

Project Number: 04010034

*Sorted By Sample ID

<u>Units</u>

Remark_ Codes

Remark,

AF00156

Field/Station ID: MB17X5

Matrix: Aqueous

Date Received: 1/20/2004

Sample Description:

Single Component Analyses

CAS Number

471-34-1

Analyte Name Result ALKALINITY, TOT. 130

mg/L SULFIDE 18496-25-8 mg/L

Field/Station ID: MB17X7 AF00157

Date Received: 1/20/2004

Matrix: Aqueous

Sample Description:

Single Component Analyses

Codes Result <u>Units</u> CAS Number Analyte Name

ALKALINITY, TOT. 140 mg/L 471-34-1

18496-25-8 mg/L

AF00158

Date Received: 1/20/2004 Field/Station ID: MB17Y0

Matrix: Aqueous

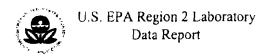
Sample Description:

Single Component Analyses Remark

Codes Result **Units** CAS Number Analyte Name 471-34-1 ALKALINITY, TOT. 56 mg/L

18496-25-8 SULFIDE mg/L

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Survey Name: Stanton Cleaners

Project Number: 04010034

*Sorted By Sample ID

AF00159

Field/Station ID: B17W2

Matrix: Aqueous

Sample Description:

Date Received: 1/20/2004

Single Component Analyses

10-19-5

CAS Number Analyte Name

ORGANIC CARBON, TOT.

Remark

Codes

Result 1,4

Units mg/L

AF00160

Field/Station ID: B17X5

Matrix: Aqueous

Sample Description:

Date Received: 1/20/2004

Single Component Analyses

10-19-5

CAS Number

Analyte Name

ORGANIC CARBON, TOT.

<u>Result</u>

Remark

Codes

Units

mg/L

AF00161

Field/Station ID: B17X7

Matrix: Aqueous

Sample Description:

Date Received: 1/20/2004

Single Component Analyses

CAS Number Analyte Name

10-19-5

ORGANIC CARBON, TOT.

Result

Remark_ Codes

Units

1.7

mg/L

AF00162

Field/Station ID: B17Y0

Date Received: 1/20/2004

Matrix: Aqueous

Sample Description

Single Component Analyses

Analyte Name

ORGANIC CARBON, TOT.

Result

Remark_

Units

Refer to Page 1 for an explanation of Remark Codes

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CAS Number

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U.S. EPA Region 2 Laboratory
Data Report

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Certificate of Analysis

January 29, 2004

John Huisman
EarthTech Inc.
110 Cuttermill Road
Great Neck, NY 11021
Phone: 516-352-4133

Dear Mr. Huisman:

RE: Stanton LTRA Groundwater Sampling

AML Work Order Number: 4320

Attached, please find the analytical report for the samples collected by EarthTech for the project described above. The laboratory received these samples on January 14, 2004. Problems encountered in the analysis of these samples are documented in the laboratory case narrative. Please feel free to call me at (913) 829-0101 if you have any questions.

Respectfully Submitted,
Analytical Management Laboratories, Inc.

Kendan L. Lindquist, MBA Operations Manager

Certificate of Analysis Laboratory Case Narrative

Client:

EarthTech

Project Name:

Stanton LTRA Groundwater Sampling

Contract/DO No:

70536.04.03.01

Lab Work Order No: 4320

Samples

Cooler receipt form(s) and completed copies of the chain of custody form(s) are included in the Sample Information section.

Reports

The laboratory is in the process of implementing Horizon/Chemware laboratory information system (LIMS) to improve EDD and hardcopy report generation procedures. Under this system, hardcopy reports are actually generated using information contained in a database, which is also used to generate electronic deliverables. This procedure was implemented to assure data integrity between these two media. Consequently, the report formats are undergoing changes and revisions that are necessary to make continuous improvement until they are finalized. The attached report is organized as follows:

Cover Letter

Laboratory Case Narrative

Sample Information

Sample Result Forms, organized in the following order: by fraction and by sample.

QC Summary organized in the following order: by fraction, by matrix and by QC parameter.

The QC Summary for each fraction contains QC parameters in the following order:

QC Association Forms (EPA CLP Form-4 equivalents)

Surrogate Recovery Summary, when applicable (EPA CLP Form-2 equivalents)

Method Blank Results (EPA CLP Form-1 equivalents)

Matrix Spike (MS) and MS duplicate (MSD) Results (EPA CLP Form-1 equivalents)

Laboratory Control Sample (LCS) and LCS duplicate (LCSD, subject to availability) Results (EPA Form-1 equivalents)

Matrix Spike (MS) and MS duplicate (MSD) Recoveries and RPD Summary (EPA CLP Form-3 equivalents)

Laboratory Control Sample (LCS) and LCS duplicate (subject to availability) Recoveries and RPD Summary (EPA Form-3 equivalents)

Sample Result Forms

Sample results are shown on modified CLP Form 1 equivalents with the following qualifiers: U = Not detected or detected below method detection limit (MDL) or reporting limit (RL). J = Detected above MDL/RL but below the practical quantitation limit (PQL).

Certificate of Analysis

E = Detected at levels in excess of the upper calibration limit.

R = Rejected due to significant QA outliers.

MDLs, RLs and PQLs have been adjusted for sample volume and dilution.

MDL=Method Detection Limit (Lowest amount that can be reported as positive based on statistical considerations).

LLR = Lowest Level for reporting (MDL<LLR<MQL). This is the lowest amount that AML reports as positive on a routine basis. The LLR is typically one half of the MQL in our laboratories. However, it can be as low as the MDL and it equals MDL for some parameters. The center of excellence (CX) at Omaha has been pushing the laboratories to use 'RDL or Reliable detection limit" as the equivalent of LLR. However, RDL is defined as two times the MDL, which makes it very difficult for the laboratories to use this term.

MQL=Method Quantitation Limit. It is the lowest point on our calibration curve. It is the equivalent of the reporting limit (RL) and/or practical quantitation limit (PQL) used by most laboratories. The term "Reporting Limit" has become meaningless since the laboratories are required to report results below this limit as an estimated result with a "J" flag).

Multiple sample result forms may be provided for one or more of the following reasons, if in the professional judgment of the laboratory that sample results for a given compound may be more accurate from one of the multiple analyses:

Sample was reanalyzed for surrogate recovery outliers;

Sample was reanalyzed at a dilution;

One of the analyses was performed outside the holding times; and

A replicate analysis was performed for internal QC purposes

OC Association Forms

A list of method blanks, laboratory control samples (LCS), LCS duplicates, (LCSD), if any, matrix spikes (MS, if available), and matrix spike duplicates (MSD, if available) and field samples associated with each QC batch are shown on QC Association Forms, which are CLP Form-4 equivalents. Separate forms are included for each matrix and each fraction. At present, the laboratory is using two tracking numbers for QC batches: numbers based on the manual system, which are recorded in the laboratory notebooks, instruments, etc; and numbers based on the LIMS system. The QC batch numbers shown on these reports are based on LIMS, which is currently in implementation.

Surrogate Recovery Forms (when applicable)

A summary of the system monitoring compound recoveries for project samples is included in this section. Surrogate recoveries for QC analyses (MB, LCS, MS, etc.) are shown in their respective sections. EPA CLP Form 2 equivalents are used to report surrogate recoveries for project samples.

Certificate of Analysis

Method Blank Result Forms

Laboratory method blank samples were analyzed with each QC batch as described in the QC Association Form. Analytical results for method blanks are shown on CLP Form 1 equivalents. They include data for all target compounds/analytes and surrogates. Laboratory policies on corrective action are included in parameter-specific case narratives.

Laboratory Control Sample (LCS) Report Forms

Laboratory control samples were analyzed with each QC batch as described in the QC Association Form. LCS results of these QC analyses are shown in CLP Form 1. LCS recoveries and RPDs for duplicates (if performed) are shown on EPA Form-3 equivalents. Recoveries and relative percent difference (RPDs) for duplicates outside the applicable QC limits are flagged with an asterisk (*). Laboratory policies on corrective action are included in parameter-specific case narratives.

Matrix Spike/Matrix Spike Duplicate Recoveries Report Forms

MS/MSD results are shown in EPA CLP Form-1 equivalents. Recoveries and relative percent difference (RPDs) for duplicates outside the applicable QC limits are flagged with an asterisk (*). They are shown on EPA Form-3 equivalents.

Calibration

Instruments were calibrated in accordance with applicable method. Deviations are shown in parameter-specific case narratives. Copies of initial calibration and calibration verification summaries and associated raw data will be maintained in project files and made available for detailed client review, if necessary.

Test Methods and Holding Times

Analyses were performed within applicable holding times except as noted in parameter-specific case narratives.

Batch-specific Quality Control Procedures

Method blanks and laboratory control samples are used as batch QC elements. Matrix spikes are used as sample specific QC elements at AML. When these QC elements are outside their QC limits, results for all associated samples are evaluated and corrective actions that affect the entire sample set are performed. Laboratory policies on corrective action are included in parameter-specific case narratives.

Certificate of Analysis

Sample-specific Quality Control Procedures

Sample concentrations exceeding the upper calibration limit, surrogate recoveries outside the QC limits, calibration parameters (e.g. ICAL, CALV, ICV, CCV, ICB, CCB, etc.) not within QC limits, etc. are used as sample-specific and/or sample-group specific QC elements for one or more associated samples during instrumental analysis. Serial dilution, standard addition, etc. are used as matrix-specific QC elements for one or more associated samples. When these QC elements are outside their QC limits, associated individual sample results are evaluated and appropriate corrective actions are performed. Laboratory policies and procedures on corrective action are included in parameter-specific case narratives.

Manual Integration

Manual integration operations that have potential to improve accuracy of analysis are performed, as necessary (shown with a "M" flag on raw data) based on visual inspection of peak shapes for each target analyte. Such operations are technically defensible and they are not aimed at meeting the minimum technical requirements of the analytical procedure.

Statement

To the best of our knowledge, this data package is in compliance with the terms and conditions of the contract/purchase order/delivery order, both technically and for completeness, for other than the conditions detailed in this case narrative. The quality assurance manager or his designee, as verified by the signature on the cover letter has authorized release of data contained in this report.

Anions - General

Calibration and sample analyses were performed using IC by SW-846 Method 300.0. Method criteria for instrument calibration and sample analysis were met. Corrective action was attempted in response to QC outliers requiring such action. When corrective action was not successful, data released by the laboratory may require qualifications for usability in accordance with client procedures and project requirements.

Initial Calibration (ICAL - Soil and Water Samples)

A six-point initial calibration was employed. The response factors for the compounds were within method QC limits for the ICAL. Linear regression is used for calibration with a minimum coef of det as 0.995. Acceptable initial calibration was not obtained for the following compounds, which were detected in project samples: None.

Initial Calibration Verification (ICV)

A second source standard was employed for the ICV. The QC recovery limits are 80% to 120%. There is no allowance for any outliers. QC outliers requiring corrective action: None.

Continuing Calibration Verification (CCVs)

A same source standard was employed for the CCV. The calibration check samples were within method QC limits for the CCVs. Acceptable CCVs were not obtained for the following compounds, which were detected in project samples: None.

Method Blanks

No significant anomalies were noted.

Laboratory Control Sample Recoveries

The DoD QSM LCS control and marginal exceedence limits are listed in the LCS/LCSD recovery form. The statistically allowable number of sporadic marginal failures (SMFs) or marginal exceedences (ME) based on the number of target compounds for this method is 0. Expanded SMF QC limits are not applicable. Compounds that may have recoveries outside the QC limits in the LCS may be within the QC limits in the LCSD. OC outliers requiring corrective action: None.

Matrix Spike Recoveries

The QC limits are listed on the MS recovery form. Expanded SMF QC limits are not applicable for this method. Compounds that may have recoveries outside the QC limits in the MS may be within the QC limits in MSD.

QC outliers requiring corrective action: None.

Matrix Spike Duplicates

The %RPD for matrix spike duplicate results are calculated to assess precision. The QC limit for soil samples are listed in the MSD recovery form. QC outliers requiring corrective action: None.

Retention Times

The retention times for the associated samples were within QC limit windows. Retention times were within QC limits for the project samples with the following exception(s): None.

RSK-175 - General

Calibration and sample analyses were performed using GC/FID by Method RSK-175. Method criteria for instrument calibration and sample analysis were met. Corrective action was attempted in response to QC outliers requiring such action. When corrective action was not successful, data released by the laboratory may require qualifications for usability in accordance with client procedures and project requirements.

Initial Calibration (ICAL - Soil and Water Samples)

A five-point initial calibration was employed. The response factors for the compounds were within method QC limits for the ICAL. Linear regression is used for calibration with a minimum coef of det as 0.995. Acceptable initial calibration was not obtained for the following compounds, which were detected in project samples: None.

Initial Calibration Verification (ICV)

A second source standard was employed for the ICV. The QC recovery limits are 70% to 150%. There is no allowance for any outliers. QC outliers requiring corrective action: None.

Continuing Calibration Verification (CCVs)

A same source standard was employed for the CCV. The calibration check samples were within method QC limits for the CCVs. Acceptable CCVs were not obtained for the following compounds, which were detected in project samples: None.

Method Blanks

No significant anomalies were noted.

Laboratory Control Sample Recoveries

The DoD QSM LCS control and marginal exceedence limits are listed in the LCS/LCSD recovery form. The statistically allowable number of sporadic marginal failures (SMFs) or marginal exceedences (ME) based on the number of target compounds for this method is 0. Expanded SMF QC limits are not applicable. Compounds that may have recoveries outside the QC limits in the LCS may be within the QC limits in the LCSD. QC outliers requiring corrective action: None.

Matrix Spike Recoveries

The QC limits are listed on the MS recovery form. Expanded SMF QC limits are not applicable for this method. Compounds that may have recoveries outside the QC limits in the MS may be within the QC limits in MSD.

OC outliers requiring corrective action: None.

Matrix Spike Duplicates

The %RPD for matrix spike duplicate results are calculated to assess precision. The QC limit for soil samples are listed in the MSD recovery form. QC outliers requiring corrective action: None.

Retention Times

The retention times for the associated samples were within QC limit windows. Retention times were within QC limits for the project samples with the following exception(s): None.

Project Samples

QC Batch:

Sample Information

SDG 4320



15130 B South Keeler Olathe, Kansas 66062 Phone (913) 829-0101 Fax (913) 829-1181

	Page _	İ	_ of _	1
Chain of Custody Record /	Request	t for	Anai	lysis

																									<u>م ا</u>					
	Client Contact Name:			_					_	_					F	^o roj	ect	Na	me	:_ <u>-</u> `	<u>St</u> 2	1/17	\mathcal{M}	\Box	<u>le</u>	an	1er	<u>s </u>	TRA GW Swy	ding
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15130 B South Keeler Olathe, Kansas 66062 Phone (913) 829-0101 Fax (913) 829-1181

Case # 325/2

Page ____ of ____
Chain of Custody Record / Request for Analysis

Client Contact Name:_								Project Name: Starton Churchs LTR/ Project Number: 70536,04,03,01											TRA	Gh	1Samp.	ling							
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Analytical Management Laboratories - Sample Status and Receipt Report

AML Project Number

4320

Client AML ID

Earth Tech

AML Profile Number

2410

Client Project ID

Stanton Cleaners LTRA GW Sam.

AML Sample	Matrix	Client Sample ID	Date Collected	Projected Due Date	Procedure	Comments
432001	W	EPA-MW-33	01/13/2004 9:05	01/28/2004 17:00	RSK175	
432001	W	EPA-MW-33	01/13/2004 9:05	01/28/2004 17:00	300.0W	IITRATE, SULFATE, CHLORID
432002	w	EPA-MW-31	01/13/2004 15:05	01/28/2004 17:00	300.0W	IITRATE, SULFATE, CHLORID
432002	w	EPA-MW-31	01/13/2004 15:05	01/28/2004 17:00	RSK175	
432003	w	EPA-MW-31D	01/13/2004 15:05	01/28/2004 17:00	300.0W	IITRATE, SULFATE, CHLORID
432003	W	EPA-MW-31D	01/13/2004 15:05	01/28/2004 17:00	RSK175	
432004	w	CL-4S	01/13/2004 11:50	01/28/2004 17:00	RSK175	
432004	W	CL-4S	01/13/2004 11:50	01/28/2004 17:00	300.0W	IITRATE, SULFATE, CHLORID
432005	w	CL-4D	01/13/2004 12:55	01/28/2004 17:00	300.0W	IITRATE, SULFATE, CHLORID
432005	W	CL-4D	01/13/2004 12:55	01/28/2004 17:00	RSK175	
432006	w	CL-1S	01/13/2004 8:45	01/28/2004 17:00	300.0W	IITRATE, SULFATE, CHLORID
432006	W	CL-1S	01/13/2004 8:45	01/28/2004 17:00	RSK175	
432007	w	CL-1D	01/13/2004 10:30	01/28/2004 17:00	300.0W	IITRATE, SULFATE, CHLORID
432007	W	CL-1D	01/13/2004 10:30	01/28/2004 17:00	RSK175	
432008	w	CL-3	01/13/2004 12:45	01/28/2004 17:00	300.0W	IITRATE, SULFATE, CHLORID
432008	W	CL-3	01/13/2004 12:45	01/28/2004 17:00	RSK175	

Analytical Management Laboratories - Sample Status and Receipt Report

AML Project Number

4320

Client AML ID

Earth Tech

AML Profile Number

2410

Client Project ID

Stanton Cleaners LTRA GW Sam.

AML Sample	Matrix	Client Sample ID	Date Collected	Projected Due Date	Procedure	Comments
432009	W	EPA-MW-29	01/13/2004 15:45	01/28/2004 17:00	RSK175	
432009	W	EPA-MW-29	01/13/2004 15:45	01/28/2004 17:00	300.0W	ITRATE, SULFATE, CHLORID
432010	w	EPA-MW-11D	01/14/2004 9:00	01/29/2004 17:00	300.0W	IITRATE, SULFATE, CHLORIO
432010	W	EPA-MW-11D	01/14/2004 9:00	01/29/2004 17:00	RSK175	
432011	w	ST-MW-11	01/14/2004 11:30	01/29/2004 17:00	300.0W	IITRATE, SULFATE, CHLORID
432011	W	ST-MW-11	01/14/2004 11:30	01/29/2004 17:00	RSK175	
432012	w	EPA-MW-32	01/14/2004 14:40	01/29/2004 17:00	300.0W	iO , NITRATE, SULFATE, CHL
432012	W	EPA-MW-32	01/14/2004 14:40	01/29/2004 17:00	RSK175	MS MSD
432013	w	EPA-MW-9A	01/14/2004 16:30	01/29/2004 17:00	300.0W	ITRATE, SULFATE, CHLORID
432013	W	EPA-MW-9A	01/14/2004 16:30	01/29/2004 17:00	R SK175	
432014	w	ST-MW-17	01/14/2004 9:45	01/29/2004 17:00	RSK175	
432014	W	ST-MW-17	01/14/2004 9:45	01/29/2004 17:00	300.0W	IITRATE, SULFATE, CHLORID
432015	w	ST-MW-12	01/14/2004 12:30	01/29/2004 17:00	300.0W	ITRATE, SULFATE, CHLORID
432015	W	ST-MW-12	01/14/2004 12:30	01/29/2004 17:00	RSK175	
432016	w	ST-MW-20	01/14/2004 15:00	01/29/2004 17:00	300.0W	ITRATE, SULFATE, CHLORID
432016	W	ST-MW-20	01/14/2004 15:00	01/29/2004 17:00	RSK175	

Analytical Management Laboratories - Sample Status and Receipt Report

AML Project Number

4320

Client AML ID

Earth Tech

AML Profile Number

2410

Client Project ID

Stanton Cleaners LTRA GW Sam.

AML Sample	Matrix	Client Sample ID	Date Collected	Projected Due Date	Procedure	Comments
432017	W	EPA-MW-30	01/14/2004 16:45	01/29/2004 17:00	RSK175	
432017	W	EPA-MW-30	01/14/2004 16:45	01/29/2004 17:00	300.0W	IITRATE, SULFATE, CHLORID

A MILL ical Management Laboratories,

AML - Sample Condition Upon Receipt Report

Client ID: Project ID:	Earth Tech Stanton Cleaners LTRA GW S	AML Work Order Number: 4320 Cooler ID:
Delivery Me	thod	
Delivery Meth	od: Courier	Name of Person Receiving Samples: RS
Couirer	ID: Federal Express	Airbill Number: 842135663842
Custody Seal	ls	
Were Cust	ody Seals Present? 🗹	Cooler Opened By: NS
Were Cu	stody Seals Intact? 🗹	Date Opened: 1/14/04
Number	of Custody Seals: 1	
Coolant / Te	mperature	
Type of Coo	lant Used: lce	Temperature of Cooler: 3
Temperature Ta	ken From: Temperature Blan	<u>k</u>
Chain of Cus Was Chain of Comme	Custody filled out properly	Do Chain of Custody and Sample Labels agree?
Confine	1	
Type of Packing	ng Used? Bubble Wrap	
,	Were all sample labels comp	olete? Were all bottles sealed in separate plastic bags?
Were correct pres	servatives added to the samp	les? Did all the bottles arrive unbroken?
Were air bubbles	absent in VOA samples?	
	Was project manage.	r contacted about any "out of control" issues? [
EDD (if appli	cable) Type:	
None	ERPMS	Excel
☐ ITEMS	✓ Access 97	Access 2000
Samples Rec	ceived by: <i>NS</i>	Project Manager Review:
	Date: 1/15/04	Date:

AMIL ical Management Laboratories,

AML - Sample Condition Upon Receipt Report

Client ID: Project ID:	Earth Tech Stanton Cleaners LTRA GW Sam.	AML Work Order Number: Cooler ID:	4320
Delivery Me	thod		
Delivery Meth	nod: Courier	Name of Person Receiving Samples:	NS
Couirer	ID: Federal Express	Airbill Number:	
Custody Sea	ls		
Were Cus	tody Seals Present?	Cooler Opened By:	NS
Were Cu	istody Seals Intact? 🗹	Date Opened:	1/15/04
Number	of Custody Seals: 1		
Coolant / To	emperature		
Type of Co	olant Used: ce	Temperature of Cooler:	2.1
Temperature T	aken From: Temperature Blank		
Chain of Cus Was Chain o Comm	f Custody filled out properly?	Do Chain of Custody and Sample Labels agree?	2
Type of Pack	ing Used? Bubble Wrap	· · · · · · · · · · · · · · · · · · ·	<u>.</u>
	Were all sample labels complete?	Were all bottles sealed in sepa	rate plastic bags?
Vere correct pre	eservatives added to the samples?	Did all the bottles	arrive unbroken? 🗹
ere air bubble	s absent in VOA samples? V/	A Was a sufficient amount of sample s	sent for analysis?
	Was project manager cont	tacted about any "out of control" issues?	1
EDD (if app	licable) Type:		
☐ None	□ ERPMS	☐ Excel	
□ ITEMS		☐ Access 2000	
Samples Re	eceived by: <i>NS</i>	Project Manager Review:	
	Data darina	W-4	

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MEE Field Sample Data

Batch 1010

Lab Name: Analytical Manag	rment Laboratories	Sample ID: EF	PA-MW-33			
Client ID: Earth Tech		Project ID Sta	anton Cleane	rs LTRA	GW Sam.	
Matrix: W		Project Num 4	320			
Sample g/ml: _44		Lab Sample ID:	432001			
% Solids: not dec.		Date Collected:	1/13/04		ime: 9:05	
Instrument ID V5890B		Dilution Factor:	1		<u></u>	
Analytical Method: RSK-175		Date Analyzed:	1/20/04			
Prep Method: RSK175		Date Received:	1/14/04 10:	25:00 AM		
Analytical Batch: 1010						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84- 0	Ethane		µg∕l	U	1.5	10
74-85-1	Ethene		μg⁄I	U	1.5	10
74-82-8	Methane		μg/l	U	1.5	10

Lab Name: Analytical Managme	ent Laboratories	Sample ID: EP	A-MW-31			
Client ID: Earth Tech		Project ID Sta	anton Cleane	ers LTRA (GW Sam.	
Matrix: W		Project Num 4	320			
Sample g/ml: 44		Lab Sample ID:	432002			
% Solids: not dec.		Date Collected:	1/13/04		ime: 15:05	<u> </u>
Instrument ID V5890B		Dilution Factor:	1			
Analytical Method: RSK-175		Date Analyzed:	1/20/04			
Prep Method: RSK175		Date Received:	1/14/04 10:	25:00 AM		
Analytical Batch: 1010						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84-0	Ethane		μ g/ 1	U	1.5	10
74-85-1	Ethene		μ g ⁄1	U	1.5	10
74-82-8	Methane	105	µg∕l		1.5	10

Lab Name: Analytical Mana	gment Laboratories	Sample ID: EF	A-MW-31D				
Client ID: Earth Tech		Project ID Sta	Stanton Cleaners LTRA GW Sam.				
Matrix: W		Project Num _4	320				
Sample g/ml: 44		Lab Sample ID:	432003				
% Solids: not dec.		Date Collected:	1/13/04	1	ime: 15:05		
Instrument ID V5890B		Dilution Factor:	1				
Analytical Method: RSK-17	5	Date Analyzed:	1/20/04				
Prep Method: RSK175	_	Date Received:	1/14/04 10:	25:00 AM	!		
Analytical Batch: 1010							
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL	
74-84-0	Ethane		μg/1	υ	1.5	10	
74-85-1	Ethene		µg∕l	υ	1.5	10	
74-82-8	Methane	55.4	µg∕l		1.5	10	

Lab Name: Analytical Managn	nent Laboratories	Sample ID: CL	-4S				
Client ID: Earth Tech		Project ID Sta	anton Cleane	rs LTRA	GW Sam.		
Matrix: W		Project Num 4	320				
Sample g/ml: 44		Lab Sample ID:	432004				
% Solids: not dec.		Date Collected:	1/13/04		Time: 11:50)	
Instrument ID V5890B		Dilution Factor:	1				
Analytical Method: RSK-175		Date Analyzed:	1/20/04				
Prep Method: RSK175		Date Received:	1/14/04 10:25:00 AM				
Analytical Batch: 1010	 						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL	
74-84-0	Ethane		μg∕l	U	1.5	10	
74–85-1	Ethene		µg∕l	U	1.5	10	
74-82-8	Methane		µg∕I	U	1.5	10	

Lab Name:	Analytical Managme	nt Laboratories	Sample ID: CL	-4D			_
Client ID:	Earth Tech		Project ID Sta	anton Cleane	rs LTRA G	SW Sam.	
Matrix: W			Project Num 4	320			
Sample g/ml:	44		Lab Sample ID:	432005			
% Solids: not	dec.		Date Collected:	1/13/04	т	ime: 12:55	-
Instrument ID	V5890B		Dilution Factor:	1			
Analytical Met	thod: RSK-175		Date Analyzed:	1/20/04			
Prep Method	: RSK175		Date Received:	1/14/04 10:	25:00 AM		
Analytical Ba	atch: 1010						
CAS N	10.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84-	-0	Ethane		μg∕1	U	1.5	10
74-85-	·1	Ethene		μg/l	U	1.5	10
74-82-	-8	Methane		µg∕1	U	1.5	10

Lab Name: Analytic	cal Managment Laboratories	Sample ID: CL	<u>-1S</u>			
Client ID: Earth Te	ech	Project ID Sta	anton Cleane	rs LTRA (GW Sam.	
Matrix: W		Project Num 4	320			
Sample g/ml: 44	<u> </u>	Lab Sample ID:	432006			
% Solids: not dec.		Date Collected:	1/13/04	1	ime: 8:45	
Instrument ID V5890	OB	Dilution Factor:	1			
Analytical Method:	RSK-175	Date Analyzed:	1/20/04			
Prep Method: RSK	175	Date Received:	1/14/04 10:	25:00 AM	<u> </u>	
Analytical Batch: 1	010					
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84-0	Ethane		μ g/ 1	U	1.5	10
74-85-1	Ethene		μg/1	U	1.5	10
74-82-8	Methane		µg∕1	U	1.5	10

Lab Name: Analytical Managr	ment Laboratories	Sample ID: CL	-1D			
Client ID: Earth Tech		Project ID Sta	inton Cleane	rs LTRA	GW Sam.	
Matrix: W		Project Num 4	320			
Sample g/ml: 44		Lab Sample ID:	432007			
% Solids: not dec.		Date Collected:	1/13/04		Time: 10:30	l
Instrument ID V5890B		Dilution Factor:	1			
Analytical Method: RSK-175		Date Analyzed:	1/20/04			
Prep Method: RSK175		Date Received:	1/14/04 10:	25:00 AM	I	
Analytical Batch: 1010						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84-0	Ethane		μ g ⁄I	U	1.5	10
74-85-1	Ethene		μg⁄I	U	1.5	10
74-82-8	Methane		μg/I	u	1.5	10

Lab Name: Analytical Mana	gment Laboratories	Sample ID: CL	3			
Client ID: Earth Tech		Project ID Sta	anton Cleane	ers LTRA (GW Sam.	
Matrix: W		Project Num _4	320			
Sample g/ml: 44		Lab Sample ID:	432008			
% Solids: not dec.		Date Collected:	1/13/04	1	ime: 12:45	
Instrument ID V5890B		Dilution Factor:	1			
Analytical Method: RSK-17	5	Date Analyzed:	1/20/04			
Prep Method: RSK175	_	Date Received:	1/14/04 10:	25:00 AM		
Analytical Batch: 1010						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84-0	Ethane		µg∕l	U	1.5	10
74-85-1	Ethene		μ g ∕1	IJ	1.5	10
74-82-8	Methane		μg/I	U	1.5	10

Lab Name: Analytical Mana	gment Laboratories	Sample ID: EF	PA-MW-29			
Client ID: Earth Tech		Project ID St	anton Cleane	rs LTRA	GW Sam.	
Matrix: W		Project Num 4	1320			
Sample g/ml: 44		Lab Sample ID:	432009			
% Solids: not dec.		Date Collected:	1/13/04		Γime: 15:45	
Instrument ID V5890B	•	Dilution Factor.	1		. —	
Analytical Method: RSK-17	5	Date Analyzed:	1/20/04			
Prep Method: RSK175	_	Date Received:	1/14/04 10:	25:00 AM	l	
Analytical Batch: 1010						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84-0	Ethane		μg/1	U	1.5	10
74-85-1	Ethene		µg∕1	U	1.5	10
74-82-8	Methane		μg/l	υ	1.5	10

Lab Name: Analytical N	Managment Laboratories	Sample ID: EP	PA-MW-11D			
Client ID: Earth Tech		Project ID Sta	anton Cleane	rs LTRA	GW Sam.	
Matrix: W		Project Num 4	320			
Sample g/ml: 44		Lab Sample ID:	432010			
% Solids: not dec.		Date Collected:	1/14/04		Time: 9:00	
Instrument ID V5890B		Dilution Factor:	1			
Analytical Method: RSF	(-175	Date Analyzed:	1/20/04			
Prep Method: RSK175		Date Received:	1/15/04 9:5	0:00 AM	1	
Analytical Batch: 1010						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84-0	Ethane		μ g /1	U	1.5	10
7 4-85- 1	Ethene		μ g ∕1	U	1.5	10
74-82-8	Methane		μg∕l	υ	1.5	10

Lab Name: Analytical Ma	anagment Laboratories	Sample ID: ST	-MW-11	_		
Client ID: Earth Tech		Project ID Sta	nton Cleane	rs LTRA (GW Sam.	
Matrix: W		Project Num 4	320			
Sample g/ml: 44		Lab Sample ID:	432011			
% Solids: not dec.		Date Collected:	1/14/04	T	ime: 11:30	
Instrument ID V5890B		Dilution Factor:	1			
Analytical Method: RSK-	175	Date Analyzed:	1/20/04	_		
Prep Method: RSK175		Date Received:	1/15/04 9:5	0:00 AM		
Analytical Batch: 1010						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84-0	Ethane		µg∕1	U	1.5	10
74-85-1	Ethene		μg/1	U	1.5	10
74-82-8	Methane		μα⁄I	υ	1.5	10

EPA Lab Code:KS00902 Kansas Certification:E-10254

FORM | VOA - Equivalent

Lab Name: Analytical Mar	nagment Laboratories	Sample ID: EP	A-MW-32			
Client ID: Earth Tech		Project ID Sta	anton Cleane	rs LTRA (GW Sam.	
Matrix: W		Project Num 4	320			
Sample g/ml: 44		Lab Sample ID:	432012			-
% Solids: not dec.		Date Collected:	1/14/04	7	ime: 14:40	
Instrument ID V5890B		Dilution Factor:	1			
Analytical Method: RSK-1	75	Date Analyzed:	1/20/04			
Prep Method: RSK175		Date Received:	1/15/04 9:5	0:00 AM		
Analytical Batch: 1010						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84-0	Ethane		μg/I	U	1.5	10
74-85-1	Ethene		µg∕l	U	1.5	10
74-82-8	Methane		μg/I	U	1.5	10

Lab Name: Analytical Managme	ent Laboratories	Sample ID: EP	A-MW-9A			
Client ID: Earth Tech		Project ID Sta	anton Cleane	rs LTRA	A GW Sam.	
Matrix: W		Project Num 4	320			
Sample g/ml: 44		Lab Sample iD:	432013			
% Solids: not dec.		Date Collected:	1/14/04		Time: 16:30	
Instrument ID V5890B		Dilution Factor:	1			
Analytical Method: RSK-175	<u> </u>	Date Analyzed:	1/20/04		•	
Prep Method: RSK175		Date Received:	1/15/04 9:5	0:00 AN	A	
Analytical Batch: 1010						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84-0	Ethane		μg/l	υ	1.5	10
74-85-1	Ethene		μg/I	υ	1.5	10
74-82-8	Methane		μg/l	U	1.5	10

EPA Lab Code:KS00902 Kansas Certification:E-10254

FORM I VOA - Equivalent

Lab Name: Analytical Manag	ment Laboratories	Sample ID: ST	-MW-17			
Client ID: Earth Tech	 	Project ID Sta	nton Cleane	rs LTRA	GW Sam.	
Matrix: W		Project Num 4	320			
Sample g/ml: 44		Lab Sample ID:	432014			
% Solids: not dec.		Date Collected:	1/14/04		Time: 9:45	
Instrument ID V5890B		Dilution Factor:	1			
Analytical Method: RSK-175		Date Analyzed:	1/20/04			
Prep Method: RSK175		Date Received:	1/15/04 9:5	0:00 AM		
Analytical Batch: 1010						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84-0	Ethane		µg∕1	U	1.5	10
74-85-1	Ethene		μg/1	U	1.5	10
74-82-8	Methane		μ g ⁄1	U	1.5	10

Lab Name: Analytical Manag	ment Laboratories	Sample ID: ST	-MW-12						
Client ID: Earth Tech		Project ID Sta	Project ID Stanton Cleaners LTRA GW Sam.						
Matrix: W		Project Num 4	320						
Sample g/ml: 44		Lab Sample ID:	432015						
% Solids: not dec.		Date Collected:	1/14/04	1	Time: 12:30)			
Instrument ID V5890B		Dilution Factor:	1						
Analytical Method: RSK-175		Date Analyzed:	1/20/04						
Prep Method: RSK175	_	Date Received:	1/15/04 9:5	0:00 AM					
Analytical Batch: 1010					-				
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL			
74-84-0	Ethane		μgЛ	U	1.5	10			
74-85-1	Ethene		μg∕1	Ų	1.5	10			
74-82-8	Methane		μg/l	U	1.5	10			

Lab Name: Analytical Managme	nt Laboratories	Sample ID: ST	-MW-20						
Client ID: Earth Tech		Project ID Stanton Cleaners LTRA GW Sam.							
Matrix: W		Project Num 4	320						
Sample g/ml: 44		Lab Sample ID:	432016						
% Solids: not dec.		Date Collected:	1/14/04		Time: 15:	00			
Instrument ID V5890B		Dilution Factor:	1						
Analytical Method: RSK-175		Date Analyzed:	1/20/04						
Prep Method: RSK175		Date Received:	1/15/04 9:5	0:00 AM	l				
Analytical Batch: 1010	- 								
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL			
74-84-0	Ethane		μ g/ l	U	1.5	10			
74-85-1	Ethene		μ g/ 1	U	1.5	10			
74-82-8	Methane		μg/l	U	1.5	10			

Lab Name: Analytical Mana	gment Laboratories	Sample ID: EP	A-MW-30			
Client ID: Earth Tech		Project ID Sta	anton Cleane	rs LTRA	GW Sam.	
Matrix: W		Project Num 4	320			
Sample g/ml: 44		Lab Sample ID:	432017			
% Solids: not dec.		Date Collected:	1/14/04		Time: 16:45	
Instrument ID V5890B		Dilution Factor:	1			
Analytical Method: RSK-17	5	Date Analyzed:	1/20/04			
Prep Method: RSK175	_	Date Received:	1/15/04 9:5	0:00 AM		
Analytical Batch: 1010						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84-0	Ethane		μg∕1	U	1.5	10
74-85-1	Ethene		μgΛ	U	1.5	10
74-82-8	Methane		μ g/ 1	U	1.5	10

Anions Field Sample Data

Batch 1183

Lab Name:	Analytical Man	agment Labo	ratories	Sample ID: E	PA-MW-3	Sample ID: EPA-MW-33							
Client ID:	Earth Tech			Project ID Stanton Cleaners LTRA GW Sam.									
Matrix: W		_		Project Num	4320					_			
Sample g/ml:	1			Lab Sample ID	: 43200	1							
% Solids: not	dec.			Date Collected	Date Collected: 1/13/04 Time: 9:05					_			
Instrument ID LD120				Date Received	1/14/04	10:25:00	AM			_			
Injection Volu	ıme: <u>1</u>	(mL)		Analytical Meth	od: <u>EP</u>	A 300.0							
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF				
1/14/04	1183	5806	Nitrate	4.68	mg/l		0.045	0.226	1				
1/1/104	1183	5806	Sulfate	44.7	ma/i	_	0.2	4	4				

Lab Name:	Analytical Mar	agment Labora	tories	Sample ID: E	PA-MW-3	11					
Client ID: E	Earth Tech			Project ID Stanton Cleaners LTRA GW Sam.							
Matrix: W				Project Num	4320						
Sample g/ml:	1			Lab Sample ID:	43200	2					
% Solids: not o	dec.			Date Collected:	1/13/04	<u> </u>	Time:	15:05			
Instrument ID LD120			Date Received:	1/14/04	10:25:00	AM					
Injection Volu	me: <u>1</u>	(mL)		Analytical Meth	od: <u>E</u> P	A 300.0					
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/14/04	1183	5806	Nitrate	1.01	mg/l	•	0.045	0.226	1		
4/4404 4492 600G Culfato				28.5 mg/l 0.2 1 1							

Lab Name:	Analytical Mar	agment Labo	oratories	Sample ID: E	PA-MW-3	1D				_	
Client ID:	Earth Tech			Project ID Stanton Cleaners LTRA GW Sam.							
Matrix: W				Project Num	4320					-	
Sample g/ml:	1			Lab Sample ID:	43200	3				_	
% Solids: not o	lec.			Date Collected:	1/13/04		Time:	15:05_			
Instrument ID LD120				Date Received: 1/14/04 10:25:00 AM							
Injection Volu	me: <u>1</u>	_ (mL)		Analytical Meth	od: <u>EP</u>	<u>A 300.0</u>					
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/14/04	1183	5806	Nitrate	0.968	mg/l	_	0.045	0.226	1		
1/14/04	1183	5806	Sulfate	27.2	ma/I		0.2	1	4		

Lab Name:	Analytical Mar	agment Labo	oratories	Sample ID: 0	CL-4S						
Client ID:	Earth Tech			Project ID Stanton Cleaners LTRA GW Sam.							
Matrix: W			····	Project Num	4320						
Sample g/ml:	1			Lab Sample ID	: 43200	4					
% Solids: not o	tec.			Date Collected	: <u>1/13/04</u>		Time:	11:50			
Instrument ID LD120			Date Received	1/14/04	10:25:00	AM					
Injection Volu	me: 1	_ (mL)		Analytical Meth	od: EP	A 300.0					
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/14/04	1183	5806	Nitrate	2.43	mg/l		0.045	0.226	1		
1/14/04	1183	5806	Sulfate	41.9	mg/1	E	0.2	1	1		

Lab Name:	Analytical Man	agment Labo	ora <u>tories</u>	Sample ID: 0	L-4D					_	
Client ID: E	Earth Tech			Project ID S	tanton Cle	aners LT	RA GW Sar	n.			
Matrix: W				Project Num	4320					_	
Sample g/ml:	1			Lab Sample ID	43200	5					
% Solids: not o	dec.	_		Date Collected	1/13/04		Time:	12:55			
Instrument ID LD120				Date Received:	1/14/04	10:25:0	0 AM				
Injection Volu	me: <u>1</u>	_ (mL)		Analytical Meth	od: <u>EP</u>	A 300.0					
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/14/04	1183	5806	Nitrate	2.5	mg/l	-	0.045	0.226	1		
1/4 4/04	1/14/04 1103 5006 Sulfato				100 02 1 1						

Lab Name:	Analytical Mar	nagment Labo	oratories	Sample ID: 0	CL-1S				_	
Client ID: E	Earth Tech			Project ID S	Stanton Cle	eaners LTF	RA GW Sar	m.		
Matrix: W				Project Num	4320					
Sample g/ml:	1			Lab Sample ID	: 43200	6				_
% Solids: not o	iec.			Date Collected	: 1/13/04		Time:	8: <u>45</u>		_
Instrument ID	LD120			Date Received	: 1/14/04	10:25:00	АМ			-
Injection Volu	me: <u>1</u>	(mL)		Analytical Meth	nod: EP	A 300 <u>.0</u>				
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/14/04	1183	5806	Nitrate	3.21	mg/l		0.045	0.226	1	
1/1A/04	1183	5806	Sulfate	49.2	mo/i	F	0.2	1	1	

Lab Name:	Analytical Man	agment Lab	oratories	Sample ID: C	L-1D						
Client ID:	Earth Tech			Project ID Stanton Cleaners LTRA GW Sam.							
Matrix: W				Project Num	4320						
Sample g/ml:	1			Lab Sample ID	43200	7					
% Solids: not o	iec.			Date Collected	1/13/04	·	Time:	10:30			
Instrument ID LD120			Date Received:	1/14/04	10:25:00	AM					
Injection Volu	me: <u>1</u>	_ (mL)		Analytical Meth	od: <u>EP</u>	<u>0,006 A</u>					
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/14/04	1183	5806	Nitrate	3.32	mg/l		0.045	0.226	1		
1/14/04	1183	5806	Sulfate	48.4	mg/l	E	0.2	1	1		

Lab Name:	Analytical Mar	agment Labo	oratories	Sample IO: CL-3						
Client ID:	Earth Tech Project ID Stanton Cleaners LTRA GW Sam. W Project Num 4320 Iml: 1 Lab Sample ID: 432008 not dec. Date Collected: 1/13/04 Time: 12:45 Int ID LD120 Date Received: 1/14/04 10:25:00 AM Volume: 1 (mL) Analytical Method: EPA 300.0									
Matrix: W				Project Num	4320					
Sample g/ml:	1			Lab Sample ID	3200	8				
% Solids: not o	dec			Date Collected	1/13/04	ļ	Time:	12:45		
Instrument ID LD120				Date Received	: 1/14/04	10:25:0	00 AM			
Injection Volu	me: <u>1</u>	(mL)		Analytical Meti	nod: EP	A 300.0				
Date Analyzed	-	•	COMPOUND	RESULT	Units	o	LLR	MQL	DF	
1/14/04	1183	5806	Nitrate	2.84	mg/l		0.045	0.226	1	
414.410.4	4402	EDOC	Culfata	24.2			0.2	4		

Lab Name:	Analytical Mar	Sample ID: EPA-MW-29								
Client ID: E	arth Tech			Project ID S	Stanton Cle	eaners L	TRA GW Sar	m.		
Matrix: W				Project Num	4320					
Sample g/ml:	1			Lab Sample ID	2: 43200	9				•
% Solids: not o	iec.			Date Collected	1: 1/13/04	4	Time:	15:45		
instrument iD	LD120			Date Received	1/14/04	10:25:0	O AM			•
Injection Volu	me: <u>1</u>	(mL)		Analytical Meth	nod: EP	<u>A 300.0</u>		-		
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/14/04 1183 5806 Nitrate				0.877	mg/l	-	0.045	0.226	1	
1/14/04 1183 5806 Sulfate				5.96 ma/ 0.2 1 1					4	

Anions Field Sample Data

Batch 1185

Lab Name:	Analytical Mar	agment Lab	oratories	Sample ID: E	PA-MW-1	1D			
Client ID: E	Earth Tech			Project ID S	Stanton Cle	aners LTF	A GW Sar	π.	
Matrix: W				Project Num	4320				
Sample g/ml:	1			Lab Sample ID	: 43201	0			
% Solids: not o	dec.			Date Collected	: 1/14/04		Time:	9:00	
Instrument ID	LD120			Date Received	: 1/15/04	9:50:00 A	<u>М</u>		
Injection Volu	me: <u>1</u>	(mL)		Analytical Meth	nod: <u>EP</u>	A 300.0			
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	o	LLR	MQL	DF
1/15/04	1185	5818	Chloride	119	mg/l	Ē	0.1	0.5	1
1/15/04	1185	5818	Nitrate	2.72	mg/l		0.045	0.226	1

40.7

mg/l

0.2

1

1

Sulfate

5818

1185

1/15/04

Lab Name:	Analytical Man	agment Labo	ratories	Sample ID: S	T-MW-11							
Client ID:	Earth Tech			Project ID Stanton Cleaners LTRA GW Sam.								
Matrix: W				Project Num	4320							
Sample g/ml;	1			Lab Sample ID	43201	1						
% Solids: not	dec.			Date Collected	1/14/04	<u> </u>	Time:	11:30				
Instrument ID	LD120			Date Received	1/15/04	9:50:00 A	AM					
Injection Volu	ıme: 1	(mL)		Analytical Meth	od: <u>EP</u>	A 300.0						
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF			
1/15/04	1185	5818	Chloride	72.6	mg/l	E	0.1	0.5	1			

3.11

64.7

mg/l

mg/l

0.045

0.2

E

0.226

1

1

1

Nitrate

Sulfate

1/15/04

1/15/04

1185

1185

5818

5818

Lab Name:	Analytical Mar	nagment Lab	oratories	Sample ID: E	PA-MW-3	2		_			
Client ID:	Earth Tech			Project ID Stanton Cleaners LTRA GW Sam.							
Matrix: W				Project Num	4320						
Sample g/ml:	1			Lab Sample ID	43201	2				-	
% Solids: not	dec.			Date Collected	: 1/14/04		Time:	14:40		_	
Instrument ID	LD120	<u> </u>		Date Received	1/15/04	9:50:00	AM			•	
Injection Volu	ıme: 1	(mL)		Analytical Meth	od: EP	A 300.0					
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	٥	LLR	MQL	DF		
1/15/04	1185	5818	Chloride	13.7	mg/l	-	0.1	0.5	1		
1/15/04	1185	5818	Nitrate	2.76	mg/l		0.045	0.226	1		

24.5

Sulfate

1/15/04

1185

5818

0.2

Lab Name:	Analytical Mar	agment Lab	oratories	Sample ID: E	PA-MW-9	Α				
Client ID:	Earth Tech			Project ID S	Stanton Cle	aners LTF	RA GW Sar	m		
Matrix: W				Project Num	4320					
Sample g/ml:	1			Lab Sample ID	: 43201	3				_
% Solids: not o	iec.			Date Collected	: 1/14/04	ļ <u></u>	Time:	16:30		_
Instrument ID	LD120		_	Date Received	: 1/15/04	9:50:00 A	M			_
Injection Volu	me: 1	(mL)		Analytical Meth	od: <u>EP</u>	A 300.0				
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/15/04	1185	5818	Chloride	69.9	mg/ī	E	0.1	0.5	1	
1/15/04	1185	5818	Nitrate	2.01	mg/l		0.045	0.226	1	

60.3

mg/l

Sulfate

5818

1185

1/15/04

Ε

0.2

1

1

Lab Name:	Analytical Managment Laboratories	Sample ID: ST-MW-17
Client ID:	Earth Tech	Project ID Stanton Cleaners LTRA GW Sam.
Matrix: W		Project Num 4320
Sample g/ml:	1	Lab Sample ID: 432014
% Solids: not	dec.	Date Collected: 1/14/04 Time: 9:45
Instrument II	D LD120	Date Received: 1/15/04 9:50:00 AM
Injection Vol	ume: 1 (mL)	Analytical Method: EPA 300.0

Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF
1/15/04	1185	5818	Chloride	126	mg/l	E	0.1	0.5	1
1/15/04	1185	5818	Nitrate	3.32	mg∕t		0.045	0.226	1
1/15/04	1185	5818	Sulfate	45.9	mg/l	Ε	0.2	1	1

Lab Name:	b Name: Analytical Managment Laboratories				Sample ID: ST-MW-12						
Client ID:	Earth Tech			Project ID S	Stanton Cle	eaners LTF	A GW Sa	ım.			
Matrix: W				Project Num	4320						
Sample g/ml:	1			Lab Sample ID	: 43201	5					
% Solids: not o	iec.			Date Collected	: 1/1 4/0 4	.	Time:	12:30_			
instrument ID	LD120			Date Received	: 1/15/04	9:50:00 A	м				
Injection Volume: 1 (mL)				Analytical Method: EPA 300.0							
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/15/04	1185	5818	Chloride	142	mg/l	E	0.2	1	2		
1/15/04	1185	5818	Nitrate	17	mg/l		0.09	0.452	2		
1/15/04	1185	5818	Sulfate	66.5	mg/l	E	0.4	2	2		

Lab Name:	Analytical Mar	agment Lab	oratories	Sample ID: S	T-MW-20							
Client ID: _E	arth Tech	····-		Project ID Stanton Cleaners LTRA GW Sam.								
Matrix: W				Project Num	4320							
Sample g/ml:	1			Lab Sample ID:	43201	6						
% Solids: not d	iec.			Date Collected:	1/14/04	<u> </u>	Time:	15:00				
Instrument ID	LD120			Date Received:	1/15/04	9:50:00 A	М					
Injection Volu	me: <u>1</u>	_ (mL)		Analytical Metho	od: <u>EP</u>	A 300.0						
Date Analyzed	Analytical Batch	Prep Balch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF			
1/15/04	1185	5818	Chloride	130	mg/l	Ē	0.1	0.5	1			

2.79

61

mg/l

mg/l

Ε

Nitrate

Sulfate

1/15/04

1/15/04

1185

1185

5818

5818

0.045 0.226

1

0.2

Lab Name:	Analytical Mar	nagment Lab	oratories	Sample ID: E	PA-MW-3	90				_
Client ID:	Earth Tech			Project ID S	Stanton Cle	eaners LTF	A GW Sa	m.	_	
Matrix: W				Project Num	4320					_
Sample g/ml:	1			Lab Sample ID	: <u>4320</u> 1	7				
% Solids: not o	dec.			Date Collected	: 1/14/04	1	Time:	16:45		_
Instrument ID	LD120			Date Received	: 1/15/04	9:50:00 A	.M			_
Injection Volu	me: <u>1</u>	(mL)		Analytical Meth	nod: <u>EP</u>	A 300.0				
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/15/04	1185	5818	Chloride	16.7	mg/l	•	0.1	0.5	1 .	
1/15/04	1185	5818	Nitrate	2.33	mg/l		0.045	0.226	1	
1/15/04	1185	5818	Sulfate	23.6	mg/l		0.2	1	1	

Anions Field Sample Data

Batch 1190

Lab Name:	Analytical Mar	nagment Lab	oratories	Sample ID: E	EPA-MW-3	3						
Client ID:	Earth Tech		- 	Project ID Stanton Cleaners LTRA GW Sam.								
Matrix: W				, Project Num	4320							
Sample g/ml:	1			Lab Sample ID	: 43200	1						
% Solids: not	dec			Date Collected	: 1/13/04	1	Time:	9:05		_		
Instrument ID	LD120			Date Received	: 1/14/04	10:25:0	0 AM			•		
Injection Volu	me: <u>1</u>	_ (mL)		Analytical Meth	nod: <u>EP</u>	A 300.0			_	_		
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF			
1/22/04	1190	5944	Chloride	58.7	mg/l	-	0.5	2.5	5			
1/22/04	1190	5944	Sulfate	40.9	mg/l		1	5	5			

Lab Name:	Analytical Mar	nagment Lab	orat <u>ories</u>	Sample ID: E	PA-MW-3	1	_		
Client ID:	Earth Tech			Project ID S	tanton Cie	aners L	TRA GW Sa	ım.	
Matrix: W				Project Num	4320				
Sample g/ml:	1			Lab Sample ID:	43200	2			
% Solids: not	dec.			Date Collected:	1/13/04	<u> </u>	Time:	15:05	
Instrument IC	LD120			Date Received:	1/14/04	10:25:0	00 AM		
Injection Volu	ume: 1	(mL)		Analytical Meth-	od: <u>EP</u>	A 300.0			
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF
1/22/04	1190	85.4	ma/l	-	1	5	10		

Lab Name: Analytical Managment L	aboratories	Sample ID: EPA-MW-31D								
Client ID: Earth Tech	Project ID Stanton Cleaners LTRA GW Sam.									
Matrix: W		Project Num 4320								
Sample g/ml: 1		Lab Sample ID: 432003								
% Solids: not dec.	Date Collected:	Date Collected: 1/13/04 Time								
Instrument ID LD120	Date Received: 1/14/04 10:25:00 AM									
Injection Volume: 1 (mL)		Analytical Method: <u>EPA 300.0</u>								
Date Analytical Prep Analyzed Batch Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF			
1/22/04 1100 59//	Chloride	R5.1	mo/l	_	1	5	10			

Lab Name:	Analytical Mar	nagment Labo	ratories	Sample ID: CL-4S Project ID Stanton Cleaners LTRA GW Sam. Project Num 4320							
Client ID: E	Earth Tech										
Matrix: W											
Sample g/ml:	1		· · · · · · · · · · · · · · · · · · ·	Lab Sample ID: 432004							
% Solids: not o	lec.			Date Collected: 1/13/04 Time: 11:50							
Instrument ID LD120 Injection Volume: 1 (mL)				Date Received: 1/14/04 10:25:00 AM Analytical Method: EPA 300.0							
											Date Analyzed
1/22/04	1190	5944	Chloride	38.5	mg/l		0.2	1	2		
1/22/04	1190	5944	Sulfate	41.6	mg/I		0.4	2	2		

Lab Name: A	Analytical Mar	agment Labo	oratories	Sample ID: CL-4D								
Client ID: E	Project ID Stanton Cleaners LTRA GW Sam.											
Matrix: W				Project Num 4320								
Sample g/ml:	1			Lab Sample ID: 432005								
% Solids: not de	Date Collected:	ļ	Time: _12:55									
Instrument ID	LD120			Date Received: 1/14/04 10:25:00 AM								
Injection Volum	Analytical Method: EPA 300.0											
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF			
1/22/04	1190	5944	Chloride	12.6	ma/I	-	0.1	0.5	1			

Lab Name:	Analytical Man	Sample ID: CL-1S Project ID Stanton Cleaners LTRA GW Sam.									
Client ID: E	arth Tech										
Matrix: W				Project Num	4320				 -		
Sample g/ml:	1	_		Lab Sample ID: 432006							
% Solids: not d	Date Collected: 1/13/04 Time: 8:45										
Instrument ID	Date Received: 1/14/04 10:25:00 AM										
Injection Volume: 1 (mL)				Analytical Method: EPA 300.0							
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/22/04	1190	5944	Chloride	65.7	mg/l		0.5	2.5	5		
1/22/04	1190	5944	Sulfate	45.1	mg/l		1	5	5		

Lab Name:	Analytical Mai	nagment Labo	ratories	Sample ID: CL-1D Project ID Stanton Cleaners LTRA GW Sam. Project Num 4320								
Client ID:	Earth Tech											
Matrix: W												
Sample g/ml:	1			Lab Sample ID: 432007								
% Solids: not	dec.			Date Collected: 1/13/04 Time: 10:30								
Instrument II	D LD120		Date Received: 1/14/04 10:25:00 AM									
Injection Volume: 1 (mL)				Analytical Method: EPA 300.0								
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF			
1/22/04	1190	5944	Chloride	95.6	mg/l	_	1	5	10			
1/22/04	1190	5044	Sulfate	44.7	mn/l		2	10	10			

Lab Name: Analytical Managment Laboratories	Sample ID: CL-3								
Client ID: Earth Tech	Project ID Stanton Cleaners LTRA GW Sam.								
Matrix: W	Project Num 4320								
Sample g/ml: 1	Lab Sample ID: 432008								
% Solids: not dec.	Date Collected: 1/13/04 Time: 12:45								
Instrument ID LD120	Date Received: 1/14/04 10:25:00 AM								
Injection Volume: 1 (mL)	Analytical Method: <u>EPA 300.0</u>								
Date Analytical Prep Analyzed Batch Batch COMPOU	ND RESULT Units Q LLR MQL DF								
1/22/04 1190 5944 Chloride	32 mal 0.5 2.5 5								

Lab Name:	Analytical Mar	agment Labo	ratories	Sample ID: EPA-MW-29								
Client ID: E	Earth Tech	Project ID Stanton Cleaners LTRA GW Sam.										
Matrix: W				Project Num 4320								
Sample g/ml:	1			Lab Sample ID: 432009								
% Solids: not d	Date Collected:	15:45										
Instrument ID	Date Received: 1/14/04 10:25:00 AM											
Injection Volur	me: 1	Analytical Method: EPA 300.0										
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF			
1/22/04	1190	5944	Chloride	6.23	mo/l	-	0.1	0.5	1			

Lab Name:	Analytical Mar	nagment Labor	ratories	Sample ID: EPA-MW-11D								
Client ID: E	Earth Tech	Project ID Stanton Cleaners LTRA GW Sam.										
Matrix: W				Project Num 4320 Lab Sample ID: 432010								
Sample g/ml:	1											
% Solids: not o	Date Collected:	1/14/04	1/14/04		Time: 9:00							
Instrument ID	LD120	Date Received: 1/15/04 9:50:00 AM Analytical Method: EPA 300.0										
Injection Volu	me: <u>1</u>											
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF			
1/22/04	1190	5944	Chloride	100	ma/l	-	0.5	2.5	5			

Lab Name:	Analytical Mar	Sample ID: ST-MW-11										
Client ID:	Earth Tech	Project ID Stanton Cleaners LTRA GW Sam.										
Matrix: W				Project Num 4320								
Sample g/ml:	1			Lab Sample ID: 432011								
% Solids: not	dec.	Date Collected: 1/14/04 Time: 11:30										
Instrument ID	LD120	Date Received: 1/15/04 9:50:00 AM										
Injection Volume: 1 (mL)				Analytical Method: EPA 300.0								
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF			
1/22/04	1190	5944	Chloride	60.4	mg/l	-	0.5	2.5	5			
1/22/04	1190	5944	Sulfate	54.8	mg/l		1	5	5			

Lab Name:	Analytical Mar	Sample ID: EPA-MW-9A										
Client ID:	Earth Tech			Project ID Stanton Cleaners LTRA GW Sam. Project Num 4320								
Matrix: W												
Sample g/ml;	1			Lab Sample ID: 432013								
% Solids: not	Date Collected: 1/14/04 Time: 16:30											
Instrument ID	LD120	Date Received: 1/15/04 9:50:00 AM Analytical Method: EPA 300.0										
Injection Volu	ıme: <u>1</u>											
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF			
1/22/04	1190	5944	Chloride	57.8	mg/l	-	0.5	2.5	5			
1/22/04	1190	5944	Sulfate	50.7	ma/I		1	5	5			

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mar	nagment Lab	oratories	Sample ID: S	ST-MW-17					_
Client ID:	Earth Tech			Project ID S	Stanton Cle	eaners L	TRA GW Sa	m.		
Matrix: W_				Project Num	4320					_
Sample g/ml:	1			Lab Sample ID	: 43201	4				
% Solids: not	dec.			Date Collected	: _1/14/04	<u> </u>	Time:	9:45		
Instrument ID	LD120			Date Received	: 1/15/04	9:50:00	AM			
Injection Volu	me: <u>1</u>	_ (mL)		Analytical Meth	nod: <u>EP</u>	A 300.0				
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/22/04	1190	5944	Chloride	97.1	mg/l		1	5	10	
1/22/04	1190	5944	Sulfate	40.5	mg/l		2	10	10	

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mar	nagment Labor	ratories	Sample ID: S	T-MW-12	·				
Client ID:	arth Tech			Project ID S	Stanton Cle	eaners L	ra GW Sa	m <u>.</u>		
Matrix: W				Project Num	4320					_
Sample g/ml:	1	_		Lab Sample ID	: 43201	5				
% Solids: not d	iec.			Date Collected	: 1/14/04	·	Time:	12:30		
Instrument ID	LD120			Date Received	: 1/15/04	9:50:00	AM			
Injection Volu	me: t	(mL)		Analytical Meth	nod: <u>EP</u>	A 300.0				
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/22/04	1190	5944	Chloride	117	mg/l	-	1	5	10	
1/22/04	1190	5944	Sulfate	60.4	ma/l		2	10	10	

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mar	nagment Lab	oratories	Sample ID: S	ST-MW-20			_		
Client ID:	Earth Tech			Project ID S	Stanton Ck	eaners L	TRA GW Sa	ım.		•
Matrix: W				Project Num	4320					
Sample g/ml:	1			Lab Sample IC	: 43201	6				_
% Solids: not o	dec.			Date Collected	: 1/14/04	<u> </u>	Time:	15:00		
Instrument ID	LD120			Date Received	: 1/15/04	9:50:00	AM			
Injection Volu	me: 1	(mL)		Analytical Meth	nod: <u>EP</u>	A 300.0				
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/22/04	1190	5944	Chloride	99.7	mg/l	-	1	5	10	
1/22/04	1190	5944	Sulfate	51.2	ma/l		2	10	10	

MEE QAQC Sample Data

Batch 1010

Quality Control Association Form

Lab Name Analytical Management Laboratories Fraction SPEC

Analytical	Prep	Date	Date		Original		
Batch	Batch	Analyzed	Prepared	Lab Sample ID	Sample	Sample Type	Project Number
1010	5871	1/20/04	1/20/04	15204		MB	
1010	5871	1/20/04	1/20/04	15262		LCS	
1010	5871	1/20/04	1/20/04	15263		LCSD	
1010	5871	1/20/04	1/20/04	15264	432012	MS	
1010	5871	1/20/04	1/20/04	15265	432012	MSD	
1010	5871	1/20/04	1/20/04	432001		SAMPLE	4320
1010	5871	1/20/04	1/20/04	432002		SAMPLE	4320
1010	5871	1/20/04	1/20/04	432003	•	SAMPLE	4320
1010	5871	1/20/04	1/20/04	432004		SAMPLE	4320
1010	5871	1/20/04	1/20/04	432005		SAMPLE	4320
1010	5871	1/20/04	1/20/04	432006		SAMPLE	4320
1010	5871	1/20/04	1/20/04	432007		SAMPLE	4320
10 10	5871	1/20/04	1/20/04	432008		SAMPLE	4320
1010	5871	1/20/04	1/20/04	432009		SAMPLE	4320
1010	5871	1/20/04	1/20/04	432010		SAMPLE	4320
1 01 0	5871	1/20/04	1/20/04	432011		SAMPLE	4320
1010	5871	1/20/04	1/20/04	432012		SAMPLE	4320
1010	5871	1/20/04	1/20/04	432013		SAMPLE	4320
1010	5871	1/20/04	1/20/04	432014		SAMPLE	4320
1010	5871	1/20/04	1/20/04	432015		SAMPLE	4320
1010	5871	1/20/04	1/20/04	432016		SAMPLE	4320
1010	5871	1/20/04	1/20/04	432017		SAMPLE	4320

Batch Reviewed by Date Reviewed Date Printed Wednesday, January 21, 2004

Lab Name: Analytical Ma	nagment Laboratories	Sample ID: ME	For HBN 58	1 [SPEC	/1010]_	
Client ID: QC ACCOUNT	<u> </u>	Project ID				
Matrix: W		Project Num				
Sample g/ml: 44		Lab Sample ID:	15204			
% Solids: not dec.		Date Collected:		т	ime:	
Instrument ID V5890B		Dilution Factor:	1			
Analytical Method: RSK-1	175	Date Analyzed:	1/20/04			
Prep Method: RSK175	_	Date Received:	1/20/04 11:	23:00 AM		
Analytical Batch: 1010						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84-0	Ethane		µg∕l	υ	1.5	10
74-85-1	Ethene		μg/l	υ	1.5	10
74-82-8	Methane		μα⁄I	u	1.5	10

EPA Lab Code:KS00902 Kansas Certification:E-10254

FORM | VOA - Equivalent

Lab Name: Analytical Man	agment Laboratories	Sample ID: LC	S for HBN 5	871 (SPE	C/1010]	
Client ID: QC ACCOUNT		Project ID				
Matrix: W		Project Num			_	
Sample g/ml: 44		Lab Sample ID:	15262			
% Solids: not dec.		Date Collected:		1	lime:	
Instrument ID V5890B		Dilution Factor:	1		1	
Analytical Method: RSK-17	<u> </u>	Date Analyzed:	1/20/04			
Prep Method: RSK175		Date Received:	1/20/04 11:	35:00 AM	! 	
Analytical Batch: 1010						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84-0	Ethane	36	μg/l		1.5	10
74-85-1	Ethene	44	μg/l		1.5	10
74-82-8	Methane	30	μαΛ		1.5	10

Lab Name:	Analytical Managme	nt Laboratories	Sample ID: LC	SD for HBN	5871 [SPI	EC/1010]	
Client ID:	QC ACCOUNT		Project ID				
Matrix: W			Project Num				
Sample g/ml:	44		Lab Sample ID:	15263		·	
% Solids: not	dec		Date Collected:		1	Time:	
instrument iD	V5890B		Dilution Factor:	1		-	
Analytical Me	thod: RSK-175		Date Analyzed:	1/20/04			
Prep Method	d: RSK175		Date Received:	1/20/04 12:	36:00 PM		
Analytical Ba	atch: 1010						
CAS	<i>1</i> 0.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84	-0	Ethane	30	μ g/ 1		1.5	10
74-85	-1	Ethene	39	μ g/ 1		1.5	10
74-82-	-8	Methane	26	υα∕I		1.5	10

Lab Name: Analytical M	lanagrnent Laboratories	Sample ID: EP	A-MW-32(4:	32012M	S)	
Client ID: QC ACCOU	NT	Project ID				
Matrix: W		Project Num				
Sample g/ml: 44		Lab Sample ID:	15264			
% Solids: not dec.		Date Collected:	1/14/04		Time: 14:	40
Instrument ID V5890B		Dilution Factor:	1		_	
Analytical Method: RSK	-175	Date Analyzed:	1/20/04			
Prep Method: RSK175		Date Received:	1/15/04 9:5	0:00 AM	и	
Analytical Batch: 1010						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84-0	Ethane	33	μgv1		1.5	10
74-85-1	Ethene	39	µg∕l		1.5	10
74-82-8	Methane	29	µg/l		1.5	10

Lab Name: Analytical Man	agment Laboratories	Sample ID: EP	A-MW-32(43	2012MS	D)	
Client ID: QC ACCOUNT		Project ID				
Matrix: W		Project Num				
Sample g/ml: 44		Lab Sample ID:	15265			
% Solids: not dec.		Date Collected:	1/14/04		Time: 14:40	
Instrument ID V5890B		Dilution Factor:	1			
Analytical Method: RSK-1	75	Date Analyzed:	1/20/04			
Prep Method: RSK175	_	Date Received:	1/15/04 9:5	0:00 AM	_	
Analytical Batch: 1010				_	_	
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
7 4-84-0	Ethane	33	μ g/ 1		1.5	10
74-85-1	Ethene	39	μg/l		1.5	10
74-82-8	Methane	29	ua/l		1.5	10

Laboratory Control Sample (LCS) Summary

 Lab Name:
 Analytical Managment Laboratories
 Analytical Batch
 1010

 Fraction
 SPEC
 Prep Batch
 5871

Matrix <u>W</u>

Lab Sample ID for LCS: 15262

	SPIKE	LCS		QC	% REC Q	C. LIMITS
Analyte	ADDED	Amount	%REC	FLAG	LCL	UCL
Ethane	48.8	36	73.8		50	150
Ethene	59.3	44	74.2		50	150
Methane	33	30	90.9		50	150

Total Number of Analytes: 3

Number of Exceedences (ME) Allowed per DoD QSM: 0

Laboratory Control Sample Duplicate (LCSD) Summary

Lab Name: Analytical Managment Laboratories

Analytical Batch 1010

Fraction SPEC

Prep Batch 5871

Matrix W

Lab Sample ID for LCSD: 15263

	SPIKE	LCSD		QC	%REC QC. LIMITS		LCS/LCSD	
Analyte	ADDED	Amount	%REC	FLAG	LCL	UCL	RPD	
Ethane	48.8	30	61.5		50	150	18.2	
Ethene	59.3	39	65.8		50	150	12	
Methane	33	26	78.8		50	150	14.3	

Total Number of Analytes: 3

Number of Exceedences (ME) Allowed per DoD QSM: 0

Matrix Spike (MS) Summary

Lab Name: Analytical Managment Laboratories

Analytical Batch 1010

Fraction SPEC

Prep Batch 5871

Matrix W

Original Sample ID:

432012

Lab Sample ID for MS:

15264

	Original	SPIKE	MS		QC	%REC Q	C. LIMITS
COMPOUND	Amount	ADDED	Amount	%REC	FLAG	LCL	UCL
Ethane	0	48.8	33	67.6		50	150
Ethene	0	59.3	39	65.8		50	150
Methane	0	33	29	87.9		50	150

Total Number of Analytes: 3

Number of Exceedences (ME) Allowed per DoD QSM: 0

Matrix Spike Duplicate (MSD) Summary Sheet

Lab Name: Analytical Managment Laboratories Ana

Analytical Batch 1010

Fraction SPEC

Prep Batch 5871

Matrix W

Original Sample ID: 432012

Lab Sample ID for MSD:

15265

	Original	SPIKE	MSD		QC	MS/MSD	RPD	%REC	LIMITS	
COMPOUND	Amount	ADDED	Amount	%REC	FLAG	RPD	FLAG	LCL	UCL	RPD
Ethane	0	48.8	33	67.6		0		50	150	50
Ethene	0	59.3	39	65.8		0		50	150	50
Methane	0	33	29	87.9		0		50	150	50

Total Number of Analytes: 3

Number of Exceedences (ME) Allowed per DoD QSM: 0

Anions QAQC Sample Data

Batch 1183

Quality Control Association Form

Lab Name Analytical Management Laboratories Fraction IC

Analytical	Prep	Date	Date		Original		
Batch	Batch	Analyzed	Prepared	Lab Sample ID	Sample	Sample Type	Project Number
1183	5806	1/14/04	1/14/04	15125		MB	
1183	5806	1/14/04	1/14/04	15126		LCS	
1183	5806	1/14/04	1/14/04	15127		LCSD	
1183	5806	1/14/04	1/14/04	15128	432001	MS	
1183	5806	1/14/04	1/14/04	15129	432001	MSD	
1183	5806	1/14/04	1/14/04	431901		SAMPLE	4319
1183	5806	1/14/04	1/14/04	431902		SAMPLE	4319
1183	5806	1/14/04	1/14/04	431903		SAMPLE	4319
1183	5806	1/14/04	1/14/04	431904		SAMPLE	4319
1183	5806	1/14/04	1/14/04	432001		SAMPLE	4320
1183	5806	1/14/04	1/14/04	432002		SAMPLE	4320
1183	5806	1/14/04	1/14/04	432003		SAMPLE	4320
1183	5806	1/14/04	1/14/04	432004		SAMPLE	4320
1183	5806	1/14/04	1/14/04	432005		SAMPLE	4320
1183	5806	1/14/04	1/14/04	432006		SAMPLE	4320
1183	5806	1/14/04	1/14/04	432007		SAMPLE	4320
1183	5806	1/14/04	1/14/04	432008		SAMPLE	4320
1183	5806	1/14/04	1/14/04	432009		SAMPLE	4320

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mar	Sample ID: MB for HBN 5806 [IC/1183]											
Client ID:	QC ACCOUNT			Project ID _									
Matrix: W				Project Num						_			
Sample g/ml:	1			Lab Sample ID	: 15125								
% Solids: not	dec. 100			Date Collected	:		Time:						
Instrument ID LD120 Injection Volume: 1 (mL)				Date Received: 1/14/04 3:00:00 PM									
				Analytical Method: <u>EPA 300.0</u>									
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF				
1/14/04	1183	5806	Nitrate		mg/l	บั	0.045	0.226	1				
1/14/04	1183	5806	Sulfate		mg/l	U	0.2	1	1				

Laboratory Control Sample (LCS) Summary

Lab Name: Analytical Managment Laboratories Analytical Batch 1183

Fraction IC Prep Batch 5806

Matrix W

Lab Sample ID for LCS: 15126

% REC QC. LIMITS QC FLAG SPIKE LCS %REC Analyte ADDED Amount LCL UCL Nitrate 4.52 4.04 89.4 80 120 Sulfate 20.00 18.10 90.7 80 120

Total Number of Analytes: 2

Number of Exceedences (ME) Allowed per DoD QSM: 0

1 - Equivalent ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mai	nagment Lab	Sample ID: LCS for HBN 5806 [IC/1183]										
Client ID: _0	OC ACCOUNT	• 		Project ID						-			
Matrix: W				Project Num									
Sample g/ml:	1			Lab Sample ID	: 15126					-			
% Solids: not o	dec. <u>100</u>			Date Collected	:		Time:			_			
Instrument ID LD120 Injection Volume: 1 (mL)				Date Received: 1/14/04 3:00:00 PM									
				Analytical Method: <u>EPA 300.0</u>									
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	o	LLR	MQL	DF				
1/14/04	1183	5806	Nitrate	4.04	mg/l	7	0.045	0.226	1				
1/14/04	1183	5806	Sulfate	18.1	ma/i		0.2	1	1				

Laboratory Control Sample Duplicate (LCSD) Summary

Lab Name: Analytical Managment Laboratories Analytical Batch 1183

Fraction IC Prep Batch 5806

Matrix W

Lab Sample ID for LCSD: 15127

Analyte	SPIKE ADOED	LCSD Amount	%REC	QC FLAG	%REC QC LCL	. LIMITS UCL	LCS/LCSD RPD
Nitrate	4.52	4.05	89.6		80	120	0.148
Sulfate	20.00	18.00	90.2		80	120	0.498

Total Number of Analytes: 2

Number of Exceedences (ME) Allowed per DoD QSM: 0

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Ma	Sample ID: LCSD for HBN 5806 [IC/1183]								
Client ID:	OC ACCOUNT	•		Project ID						-
Matrix: W				Project Num						
Sample g/ml:	1			Lab Sample ID): 15127					•
% Solids: not o	dec. 100	Date Collected	l:		Time:					
Injection Volume: 1 (mL)				Date Received	: 1/14/04	3:00:00	PM			•
				Analytical Method: EPA 300.0						
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	o	LLR	MQL	DF	
1/14/04	1183	5806	Nitrate	4.05	mg/l	•	0.045	0.226	1	
1/14/04	1/14/04 1183 5806 Sulfate			18 <i>ma/</i> 1 0.2 1 1						

3 - Equivalent IC ANALYSIS DATA SHEET / Matrix Spike Summary Sheet

Lab Name: Analytical Managment Laboratories Analytical Batch 1183

Fraction IC Prep Batch 5806

Orig HSN: 432001 MS HSN: 15128 MSD HSN: 15129

MS % MSD% QC. LIMITS RPD SPIKE MS MS % REC# Original Amount SPIKE MSD MSD % REC# COMPOUND FLAG FLAG RPD FLAG ADDE Amount REC# ADDED Amount REC# Sulfate 44.722 40 83.4 96.7 40 83.1 96 0.333 80 120 20 Nitrate 4.68 9.04 13.4 96.5 9.04 13.5 97.4 0.58 80 120 20

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mar	Sample ID: EPA-MW-33(432001MS)											
Client ID:	C ACCOUNT			Project ID						•			
Matrix: W				Project Num						_			
Sample g/ml:	1			Lab Sample ID): <u>15128</u>	·			_				
% Solids: not o	dec.	Date Collected: 1/13/04 Time: 9:05											
Instrument ID LD120				Date Received: 1/14/04 10:25:00 AM									
Injection Volu	Injection Volume: 1 (mL)				Analytical Method: EPA 300.0								
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF				
1/14/04	1183	5806	Nitrate	13.4	mg/l	•	0.09	0.452	2				
1/14/04	1123	5006	Sulfate	83.4	mn/l	F	0.4	2	2				

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

ab Name: Analytical Managment Laboratories				Sample ID: EPA-MW-33(432001MSD)							
Client ID:	QC ACCOUNT	·		Project ID							
Matrix: W				Project Num	·					_	
Sample g/ml:	1			Lab Sample ID): <u>15129</u>						
% Solids: not	dec			Date Collected	i: <u>1/13/04</u>	<u> </u>	Time:	9:05			
Instrument ID	LD120	Date Received	: <u>1/14/0</u> 4	10:25:00	AM						
Injection Volu	me: 1	(mL)		Analytical Meti	hod: <u>EP</u>	A 300.0					
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/14/04	1183	5806	Nitrate	13.5	mg/l	-	0.09	0.452	2		
1/14/04	1183	5806	Sulfate	R3 1	ma/l	F	0.4	2	2		

Anions QAQC Sample Data

Batch 1185

Quality Control Association Form

Fraction IC Lab Name Analytical Management Laboratories

Analytical	Prep	Date	Date		Original		
Batch	Batch	Analyzed	Prepared	Lab Sample ID	Sample	Sample Type	Project Number
1185	5818	1/15/04	1/15/04	15153		MB	
1185	5818	1/15/04	1/15/04	15154		LCS	
1185	5818	1/15/04	1/15/04	15155		LCSD	
1185	5818	1/15/04	1/15/04	15156	432012	MS	
1185	5818	1/15/04	1/15/04	15157	432012	MSD	
1185	5818	1/15/04	1/15/04	431905		SAMPLE	4319
1185	5818	1/15/04	1/15/04	431906		SAMPLE	4319
1185	5818	1/15/04	1/15/04	431907		SAMPLE	4319
1185	5818	1/15/04	1/15/04	431908		SAMPLE	4319
1185	5818	1/15/04	1/15/04	432010		SAMPLE	4320
1185	5818	1/15/04	1/15/04	432011		SAMPLE	4320
1185	5818	1/15/04	1/15/04	432012		SAMPLE	4320
1185	5818	1/15/04	1/15/04	432013		SAMPLE	4320
1185	5818	1/15/04	1/15/04	432014		SAMPLE	4320
1185	5818	1/15/04	1/15/04	432015		SAMPLE	4320
1185	5818	1/15/04	1/15/04	432016		SAMPLE	4320
1185	5818	1/15/04	1/15/04	432017		SAMPLE	4320

Batch Reviewed by Date Reviewed 123104 Date Printed Friday, January 23, 2004

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mar	Sample ID: MB for HBN 5818 [IC/1185]									
Client ID:	C ACCOUNT			Project ID						_	
Matrix: W				Project Num							
Sample g/ml:	1			Lab Sample ID	: 15153						
% Solids: not o	dec. 100			Date Collected	:		Time:			_	
Instrument ID	nstrument ID LD120				: 1/15/04	4:40:00	PM_			_	
Injection Volume: 1 (mL)			Analytical Method: <u>EPA 300.0</u>								
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/15/04	1185	5818	Chloride		mg/l	ū	0 .1	0.5	1		
1/15/04	1185	5818	Nitrate		mg/l	U	0.045	0.226	1		
1/15/04	1185	5818	Sulfate		mg/l	U	0.2	1	1		

Laboratory Control Sample (LCS) Summary

Lab Name: Analytical Managment Laboratories Analytical Batch 1185

Fraction IC Prep Batch 5818

Matrix W

Lab Sample ID for LCS: 15154

	SPIKE	LCS		QC	% REC QC. LIMITS		
Analyte	ADDED	Amount	%REC	FLAG	LCL	UCL	
Chloride	10.00	9.42	94.2		80	120	
Nitrate	4.52	4.16	92		80	120	
Sulfate	20.00	18.80	93.9		80	120	

Total Number of Analytes: 3

Number of Exceedences (ME) Allowed per DoD QSM: 0

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mar	nagment Lat	oratories	Sample ID: LCS for HBN 5818 [IC/1185]								
Client ID:	C ACCOUNT			Project ID								
Matrix: W			·	Project Num								
Sample g/ml:	1			Lab Sample ID): 15154					_		
% Solids: not o	dec. 100			Date Collected	l:		Time:			_		
Instrument ID	LD120			Date Received	1/15/04	4:40:00	PM					
Injection Volume: 1 (mL)			Analytical Method: EPA 300.0									
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF			
1/15/04	1185	5818	Chloride	9.42	mg/l	_	0.1	0.5	1			
1/15/04	1185	5818	Nitrate	4.16	mg/l		0.045	0.226	1			
1/15/04	1185	5818	Sulfate	18.8	mg/l		0.2	1	1			

Laboratory Control Sample Duplicate (LCSD) Summary

Lab Name: Analytical Managment Laboratories Analytical Batch 1185

Fraction IC Prep Batch 5818

Matrix <u>W</u>

Lab Sample ID for LCSD: 15155

	SPIKE	LCSD		·QC	%REC QC	LCS/LCSD	
Analyte	ADDED	Amount	%REC	FLAG	LCL	UCL	RPD
Chloride	10.00	9.40	94		80	120	0.287
Nitrate	4.52	4.15	91.9		80	120	0.144
Sulfate	20.00	18.80	93.9		80	120	0.016

Total Number of Analytes: 3

Number of Exceedences (ME) Allowed per DoD QSM: 0

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name: Analytical Managment Laboratories Client ID: QC ACCOUNT				Sample ID: LCSD for HBN 5818 [IC/1185]							
				Project ID							
Matrix: W		Project Num									
Sample g/ml: 1				Lab Sample ID: 15155							
% Solids: not d	lec. 100			Date Collected	:	·	Time:				
Instrument ID	LD120			Date Received:	1/15/04	4:40:00	PM				
Injection Volu	me: <u>1</u>	_ (mL)	_	Analytical Meth	od: <u>EP</u> A	300.0					
	j.			*							
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/15/04	1185	5818	Chloride	9.4	mg/I	-	0.1	0.5	1		
· 1/15/04	1185	5818	Nitrate	g.: • 4.15	mg/l		0.045	0.226	1 .		
1/15/04	1185	5818	Sulfate	18.8	mg/l	1.0	0.2	1	1 5		

3 - Equivalent IC ANALYSIS DATA SHEET / Matrix Spike Summary Sheet

Lab Name: Analytical Managment Laboratories Analytical Batch 1185

Fraction IC Prep Batch 5818

Orig HSN: 432012 MS HSN: 15156 MSD HSN: 15157

MS % MSD% QC. LIMITS RPD SPIKE MSD MSD % ADDED Amount REC# MSD % REC# Original
Amount SPIKE MS REC# MS % COMPOUND ADDE FLAG FLAG RPD FLAG Amount REC # 24.455 Sulfate 40 64.4 99.9 40 64.9 101 0.764 20 80 120 2.757 97.2 Nitrate 9.04 11.5 9.04 11.7 99.4 1.64 120 20 13.737 Chloride 20 33.7 99.7 20 33.9. 101 0.548 80 120 20

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mar	nagment Lab	oratories	Sample ID: E	PA-MW-3	2(43201	2MS)			_
Client ID:	C ACCOUNT	•		Project ID			·			
Matrix: W				Project Num	·	·		·		_
Sample g/ml:	1			Lab Sample ID	: 15156					
% Solids: not dec.			Date Collected: 1/14/04 Time: 14:40				14:40			
Instrument ID	LD120			Date Received:	: 1/15/04	9:50:00	AM			
Injection Volu	me: <u>1</u>	(mL)		Analytical Meth	od: <u>EP</u>	A 300.0				
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/15/04	1185	5818	Chloride	33.7	mg/l	•	0.2	1	2	
1/ 15/04	1185	5818	Nitrate	11.5	mg/l		0.09	0.452	2	
4145104	4405	F040	Culfata	64.4	A	2	0.4	2	•	

1 - Equivalent . Ion Chromatography ANALYSIS DATA SHEET

Lab Name: Analytical Managment Laboratories				Sample ID: EPA-MW-32(432012MSD)							
Client ID: QC ACCOUNT			Project ID								
Matrix: W		Project Num									
Sample g/ml:	1			Lab Sample ID: 15157						_	
% Solids: not o	dec.	Date Collected: 1/14/04 Time:				14:40					
Instrument ID LD120				Date Received: 1/15/04 9:50:00 AM							
Injection Volu	me: <u>1</u>	(mL)		Analytical Meth	nod: <u>EP</u>	A 300.0					
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/15/04	1185	5818	Chloride	33.9	mg/l	-	0.2	1	2		
1/15/04	1 18 5	581 8	Nitrate	11,7	mg/l		0.09	0.452	2		
1/15/04	1185	5818	Sulfate	64.9	mg/l		0.4	2	2		

mg/l

0.4

2

2

Anions QAQC Sample Data

Batch 1190

Quality Control Association Form

Lab Name Analytical Management Laboratories Fraction IC

Analytical	Prep	Date	Date		Original		
Batch	Batch	Analyzed	Prepared	Lab Sample ID	Sample	Sample Type	Project Number
1190	5944	1/22/04	1/22/04	15344		MB	
1190	5944	1/22/04	1/22/04	15345		LCS	
1190	5944	1/22/04	1/22/04	15346		LCSD	
1190	5944	1/22/04	1/22/04	15347	432001	:MS	
1190	5944	1/22/04	1/22/04	15348	432001	MSD	
1190	5944	1/22/04	1/22/04	432001		SAMPLE	4320
1190	5944	1/22/04	1/22/04	432002		SAMPLE	4320
1190	5944	1/22/04	1/22/04	432003	- 1	SAMPLE	4320
1190	5944	1/22/04	1/22/04	432004		SAMPLE	4320
119 0	5944	1/22/04	1/22/04	432005		SAMPLE	4320
1190	5944	1/22/04	1/22/04	432006		SAMPLE	4320
1190	5944	1/22/04	1/22/04	432007		SAMPLE	4320
1190	5944	1/22/04	1/22/04	432008		SAMPLE	4320
1190	5944	1/22/04	1/22/04	432009		SAMPLE	4320
1190	5944	1/22/04	1/22/04	432010		SAMPLE	4320
1190	5944	1/22/04	1/22/04	432011		SAMPLE	4320
1190	5944	1/22/04	1/22/04	432013		SAMPLE	4320
1190	5944	1/22/04	1/22/04	432014		SAMPLE	4320
1190	5944	1/22/04	1/22/04	432015		SAMPLE	4320
1190	5944	1/22/04	1/22/04	432016		SAMPLE	4320

Batch Reviewed by ______ Date Reviewed #2

Date Reviewed #2 #3 Date Printed

Friday, January 23, 2004

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Man	agment Lab	oratories	Sample ID: N	AB for HBI	N 5944 [I	IC/1190)			
Client ID: 0	C ACCOUNT			Project ID						-
Matrix: W				Project Num						
Sample g/ml:	1			Lab Sample ID	15344					_
% Solids: not d	lec. 100			Date Collected	:		Time:			
Instrument ID	LD120			Date Received	: 1/22/04	11:50:0	X AM_			
Injection Volum	ne: <u>1</u>	_ (mL)		Analytical Meth	nod: EP	A 300.0				
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/22/04	1190	5944	Chloride		mg/l	ũ	0.1	0.5	1	
1/22/04	1190	5944	Sulfate		mg/l	U	0.2	1	1	

Laboratory Control Sample (LCS) Summary

Lab Name: Analytical Managment Laboratories Analytical Batch 1190

Fraction IC Prep Batch 5944

Matrix W

Lab Sample ID for LCS: 15345

	SPIKE	LCS		QC	% REC QC	. LIMITS
Analyte	ADDED	Amount	%REC	FLAG	LCL	UCL
Chloride	10.00	9.44	94.4		80	120
Sulfate	20.00	19.00	94.8		80	120

Total Number of Analytes: 2

Number of Exceedences (ME) Allowed per DoD QSM: 0

Actual Number of Marginal Excedences: 0

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mai	nagment Lab	oratories	Sample ID: L	CS for HE	N 5944	[IC/1190]		
Client ID:	QC ACCOUNT			Project ID					
Matrix: W				Project Num					
Sample g/ml:	1			Lab Sample ID): 15345				
% Solids: not	dec. 100			Date Collected	l:		Time:		
Instrument ID	LD120			Date Received	: 1/22/04	11:50:0	0 AM _		
Injection Volu	ıme: <u>1</u>	_ (mL)		Analytical Meth	nod: <u>EP</u>	A 300.0	- · · · · · · · · · · · · · · · · · · ·		
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF
1/22/04	1190	5944	Chloride	9.44	rng/l	-	0.1	0.5	1
1/22/04	1190	5944	Sulfate	19	mg/l		0.2	1	1

Laboratory Control Sample Duplicate (LCSD) Summary

Lab Name: Analytical Managment Laboratories Analytical Batch 1190

Fraction IC Prep Batch 5944

Matrix W

Lab Sample ID for LCSD: 15346

	SPIKE	LCSD		QC FLAG	%REC QC	. LIMITS	LCS/LCSD
Analyte	ADDED	Amount	%REC	FLAG	LCL	UCL	RPD
Chloride	10.00	9.39	93.9		80	120	0.52
Sulfate	20.00	18.80	94.2		80	120	0.645

Total Number of Analytes: 2

Number of Exceedences (ME) Allowed per DoD QSM: 0

Actual Number of Marginal Excedences: 0

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mar	agment Lab	oratories	Sample ID: L	.CSD for H	IBN 594	[IC/1190]			
Client ID:	QC ACCOUNT			Project ID						
Matrix: W				Project Num						
Sample g/ml:	: 1			Lab Sample ID	: 15346					_
% Solids: nol	t dec. 100			Date Collected	:		Time:			
Instrument i	D LD120			Date Received	: 1/22/04	11:50:0	O AM_			
Injection Vol	lume: 1	(mL)		Analytical Meth	nod: <u>EP</u>	A 300.0				
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/22/04	1190	5944	Chloride	9.39	mg/l	~	0.1	0.5	1	
1/22/04	1100	E044	Culfata	100	mall		0.2	4	4	

3 - Equivalent IC ANALYSIS DATA SHEET / Matrix Spike Summary Sheet

Lab Name: Analytical Managment Laboratories Analytical Managment Laboratories

Analytical Batch 1190

Fraction IC

Prep Batch 5944

Orig HSN: 432001 MS HSN: 15347 MSD HSN: 15348

MS % REC# MSD% QC. LIMITS RPD SPIKE MS MS % SPIKE MSD MSD % REC# Original Amount COMPOUND RPD FLAG LCL UCL RPD ADDE Amount REC# FLAG **ADDED** Amount REC # Sulfate 40.946 238 200 98.5 200 236 97.4 0.942 20 120 Chloride 58.727 100 162 103 100 159 101 1.68 80 120 20

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mai	nagment Lat	ooratories	Sample ID: E	PA-MW-3	3(43200	1MS)			
Client ID:	QC ACCOUNT			Project ID						-
Matrix: W				Project Num						_
Sample g/ml:	1			Lab Sample ID	: 15347				_	
% Solids: not	dec.			Date Collected	: 1/13/04	, _	Time:	9:05		_
Instrument i	D LD120			Date Received	: 1/14/04	10:25:0	MA O			
Injection Vol	ume: 1	(mL)		Analytical Meth	nod: <u>EP</u>	A 300.0				
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/22/04	1190	5944	Chloride	162	mg/l		1	5	10	
1/22/04	1190	5944	Sulfate	238	mg/l		2	10	10	

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mar	agment Labo	oratories	Sample ID: _E	PA-MW-3	3(43200	1MSD)			_
Client ID:	QC ACCOUNT			Project ID _						
Matrix: W				Project Num						_
Sample g/ml:	1			Lab Sample ID	: 15348					
% Solids: not	dec	***		Date Collected	: 1/13/04	<u> </u>	Time:	9:05		_
Instrument (C	LD120			Date Received	: 1/14/04	10:25:0	0 AM			
Injection Volu	ıme: <u>1</u>	_ (mL)		Analytical Meth	nod: <u>EP</u>	A 300.0				
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/22/04	1190	5944	Chloride	159	mg/l	-	1	5	10	
1/22/04	1190	5944	Sulfate	236	mg/l		2	10	10	



January 29, 2004

John Huisman EarthTech Inc. 110 Cuttermill Road Great Neck, NY 11021 Phone: 516-352-4133

Dear Mr. Huisman:

RE: Stanton LTRA Groundwater Sampling

AML Work Order Number: 4330

Attached, please find the analytical report for the samples collected by EarthTech for the project described above. The laboratory received these samples on January 16, 2004. Problems encountered in the analysis of these samples are documented in the laboratory case narrative. Please feel free to call me at (913) 829-0101 if you have any questions.

Respectfully Submitted,
Analytical Management Laboratories, Inc.

Operations Manager

Certificate of Analysis Laboratory Case Narrative

Client:

EarthTech

Project Name:

Stanton LTRA Groundwater Sampling

Contract/DO No:

70536.04.03.01

Lab Work Order No: 4330

Samples

Cooler receipt form(s) and completed copies of the chain of custody form(s) are included in the Sample Information section.

Reports

The laboratory is in the process of implementing Horizon/Chemware laboratory information system (LIMS) to improve EDD and hardcopy report generation procedures. Under this system, hardcopy reports are actually generated using information contained in a database, which is also used to generate electronic deliverables. This procedure was implemented to assure data integrity between these two media. Consequently, the report formats are undergoing changes and revisions that are necessary to make continuous improvement until they are finalized. The attached report is organized as follows:

Cover Letter

Laboratory Case Narrative

Sample Information

Sample Result Forms, organized in the following order: by fraction and by sample.

QC Summary organized in the following order: by fraction, by matrix and by QC parameter.

The OC Summary for each fraction contains QC parameters in the following order:

OC Association Forms (EPA CLP Form-4 equivalents)

Surrogate Recovery Summary, when applicable (EPA CLP Form-2 equivalents)

Method Blank Results (EPA CLP Form-1 equivalents)

Matrix Spike (MS) and MS duplicate (MSD) Results (EPA CLP Form-1 equivalents)

Laboratory Control Sample (LCS) and LCS duplicate (LCSD, subject to availability) Results (EPA Form-1 equivalents)

Matrix Spike (MS) and MS duplicate (MSD) Recoveries and RPD Summary (EPA CLP Form-3 equivalents)

Laboratory Control Sample (LCS) and LCS duplicate (subject to availability) Recoveries and RPD Summary (EPA Form-3 equivalents)

Sample Result Forms

Sample results are shown on modified CLP Form 1 equivalents with the following qualifiers: U = Not detected or detected below method detection limit (MDL) or reporting limit (RL).

J = Detected above MDL/RL but below the practical quantitation limit (PQL).

E = Detected at levels in excess of the upper calibration limit.

R = Rejected due to significant QA outliers.

MDLs, RLs and PQLs have been adjusted for sample volume and dilution.

MDL=Method Detection Limit (Lowest amount that can be reported as positive based on statistical considerations).

LLR = Lowest Level for reporting (MDL<LLR<MQL). This is the lowest amount that AML reports as positive on a routine basis. The LLR is typically one half of the MQL in our laboratories. However, it can be as low as the MDL and it equals MDL for some parameters. The center of excellence (CX) at Omaha has been pushing the laboratories to use 'RDL or Reliable detection limit" as the equivalent of LLR. However, RDL is defined as two times the MDL, which makes it very difficult for the laboratories to use this term.

MQL=Method Quantitation Limit. It is the lowest point on our calibration curve. It is the equivalent of the reporting limit (RL) and/or practical quantitation limit (PQL) used by most laboratories. The term "Reporting Limit" has become meaningless since the laboratories are required to report results below this limit as an estimated result with a "J" flag).

Multiple sample result forms may be provided for one or more of the following reasons, if in the professional judgment of the laboratory that sample results for a given compound may be more accurate from one of the multiple analyses:

Sample was reanalyzed for surrogate recovery outliers;

Sample was reanalyzed at a dilution;

One of the analyses was performed outside the holding times; and

A replicate analysis was performed for internal QC purposes

OC Association Forms

A list of method blanks, laboratory control samples (LCS), LCS duplicates, (LCSD), if any, matrix spikes (MS, if available), and matrix spike duplicates (MSD, if available) and field samples associated with each QC batch are shown on QC Association Forms, which are CLP Form-4 equivalents. Separate forms are included for each matrix and each fraction. At present, the laboratory is using two tracking numbers for QC batches: numbers based on the manual system, which are recorded in the laboratory notebooks, instruments, etc; and numbers based on the LIMS system. The QC batch numbers shown on these reports are based on LIMS, which is currently in implementation.

Surrogate Recovery Forms (when applicable)

A summary of the system monitoring compound recoveries for project samples is included in this section. Surrogate recoveries for QC analyses (MB, LCS, MS, etc.) are shown in their respective sections. EPA CLP Form 2 equivalents are used to report surrogate recoveries for project samples.

Method Blank Result Forms

Laboratory method blank samples were analyzed with each QC batch as described in the QC Association Form. Analytical results for method blanks are shown on CLP Form 1 equivalents. They include data for all target compounds/analytes and surrogates. Laboratory policies on corrective action are included in parameter-specific case narratives.

Laboratory Control Sample (LCS) Report Forms

Laboratory control samples were analyzed with each QC batch as described in the QC Association Form. LCS results of these QC analyses are shown in CLP Form 1. LCS recoveries and RPDs for duplicates (if performed) are shown on EPA Form-3 equivalents. Recoveries and relative percent difference (RPDs) for duplicates outside the applicable QC limits are flagged with an asterisk (*). Laboratory policies on corrective action are included in parameter-specific case narratives.

Matrix Spike/Matrix Spike Duplicate Recoveries Report Forms

MS/MSD results are shown in EPA CLP Form-1 equivalents. Recoveries and relative percent difference (RPDs) for duplicates outside the applicable QC limits are flagged with an asterisk (*). They are shown on EPA Form-3 equivalents.

Calibration

Instruments were calibrated in accordance with applicable method. Deviations are shown in parameter-specific case narratives. Copies of initial calibration and calibration verification summaries and associated raw data will be maintained in project files and made available for detailed client review, if necessary.

Test Methods and Holding Times

Analyses were performed within applicable holding times except as noted in parameter-specific case narratives.

Batch-specific Quality Control Procedures

Method blanks and laboratory control samples are used as batch QC elements. Matrix spikes are used as sample specific QC elements at AML. When these QC elements are outside their QC limits, results for all associated samples are evaluated and corrective actions that affect the entire sample set are performed. Laboratory policies on corrective action are included in parameter-specific case narratives.

Sample-specific Quality Control Procedures

Sample concentrations exceeding the upper calibration limit, surrogate recoveries outside the QC limits, calibration parameters (e.g. ICAL, CALV, ICV, CCV, ICB, CCB, etc.) not within QC limits, etc. are used as sample-specific and/or sample-group specific QC elements for one or more associated samples during instrumental analysis. Serial dilution, standard addition, etc. are used as matrix-specific QC elements for one or more associated samples. When these QC elements are outside their QC limits, associated individual sample results are evaluated and appropriate corrective actions are performed. Laboratory policies and procedures on corrective action are included in parameter-specific case narratives.

Manual Integration

Manual integration operations that have potential to improve accuracy of analysis are performed, as necessary (shown with a "M" flag on raw data) based on visual inspection of peak shapes for each target analyte. Such operations are technically defensible and they are not aimed at meeting the minimum technical requirements of the analytical procedure.

Statement

To the best of our knowledge, this data package is in compliance with the terms and conditions of the contract/purchase order/delivery order, both technically and for completeness, for other than the conditions detailed in this case narrative. The quality assurance manager or his designee, as verified by the signature on the cover letter has authorized release of data contained in this report.

Anions - General

Calibration and sample analyses were performed using IC by SW-846 Method 300.0. Method criteria for instrument calibration and sample analysis were met. Corrective action was attempted in response to QC outliers requiring such action. When corrective action was not successful, data released by the laboratory may require qualifications for usability in accordance with client procedures and project requirements.

Initial Calibration (ICAL - Soil and Water Samples)

A six-point initial calibration was employed. The response factors for the compounds were within method QC limits for the ICAL. Linear regression is used for calibration with a minimum coef of det as 0.995. Acceptable initial calibration was not obtained for the following compounds, which were detected in project samples: None.

Initial Calibration Verification (ICV)

A second source standard was employed for the ICV. The QC recovery limits are 80% to 120%. There is no allowance for any outliers. QC outliers requiring corrective action: None.

Continuing Calibration Verification (CCVs)

A same source standard was employed for the CCV. The calibration check samples were within method QC limits for the CCVs. Acceptable CCVs were not obtained for the following compounds, which were detected in project samples: None.

Method Blanks

No significant anomalies were noted.

Laboratory Control Sample Recoveries

The DoD QSM LCS control and marginal exceedence limits are listed in the LCS/LCSD recovery form. The statistically allowable number of sporadic marginal failures (SMFs) or marginal exceedences (ME) based on the number of target compounds for this method is 0. Expanded SMF QC limits are not applicable. Compounds that may have recoveries outside the QC limits in the LCS may be within the QC limits in the LCSD. QC outliers requiring corrective action: None.

Matrix Spike Recoveries

The QC limits are listed on the MS recovery form. Expanded SMF QC limits are not applicable for this method. Compounds that may have recoveries outside the QC limits in the MS may be within the QC limits in MSD.

OC outliers requiring corrective action: None.

Matrix Spike Duplicates

The %RPD for matrix spike duplicate results are calculated to assess precision. The QC limit for soil samples are listed in the MSD recovery form. QC outliers requiring corrective action: None.

Retention Times

The retention times for the associated samples were within QC limit windows. Retention times were within QC limits for the project samples with the following exception(s): None.

RSK-175 - General

Calibration and sample analyses were performed using GC/FID by Method RSK-175. Method criteria for instrument calibration and sample analysis were met. Corrective action was attempted in response to QC outliers requiring such action. When corrective action was not successful, data released by the laboratory may require qualifications for usability in accordance with client procedures and project requirements.

Initial Calibration (ICAL - Soil and Water Samples)

A five-point initial calibration was employed. The response factors for the compounds were within method QC limits for the ICAL. Linear regression is used for calibration with a minimum coef of det as 0.995. Acceptable initial calibration was not obtained for the following compounds, which were detected in project samples: None.

Initial Calibration Verification (ICV)

A second source standard was employed for the ICV. The QC recovery limits are 70% to 150%. There is no allowance for any outliers. QC outliers requiring corrective action: None.

Continuing Calibration Verification (CCVs)

A same source standard was employed for the CCV. The calibration check samples were within method QC limits for the CCVs. Acceptable CCVs were not obtained for the following compounds, which were detected in project samples: None.

Method Blanks

No significant anomalies were noted.

Laboratory Control Sample Recoveries

The DoD QSM LCS control and marginal exceedence limits are listed in the LCS/LCSD recovery form. The statistically allowable number of sporadic marginal failures (SMFs) or marginal exceedences (ME) based on the number of target compounds for this method is 0. Expanded SMF QC limits are not applicable. Compounds that may have recoveries outside the QC limits in the LCS may be within the QC limits in the LCSD. OC outliers requiring corrective action: None.

Matrix Spike Recoveries

The QC limits are listed on the MS recovery form. Expanded SMF QC limits are not applicable for this method. Compounds that may have recoveries outside the QC limits in the MS may be within the QC limits in MSD. QC outliers requiring corrective action: None.

Matrix Spike Duplicates

The %RPD for matrix spike duplicate results are calculated to assess precision. The QC limit for soil samples are listed in the MSD recovery form. QC outliers requiring corrective action: None.

Retention Times

The retention times for the associated samples were within QC limit windows. Retention times were within QC limits for the project samples with the following exception(s): None.

Project Samples *QC Batch:*

Sample Information

SDG 4330

it Laboratories, Inc.

Olathe, Kansas 66062 Fax (913) 829-1181 Phone (913) 829-0101 15130 B South Keeler

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Project Name: Starthy LIRA Croundwide Surpling Project Number: 70536, 04,03,01 Purchase Order Number: Project Due Date: Project Comments: Sampler's Signature:	Fax #: ()	Phone #: (5/6) 353-4/33	City, State, Zip: Great Neck, NY 11021	Address: 110 Cultur Mill Road	Company Name: Euch Tech, Inc.	Client Contact Name: John Huisthun
5511	Sampler's Signature:	Project Comments:	Project Due Date:		70536.04.03.01	Project Name: Startby LIRA Coroundwater Semeling

Analyses/Method to be Performed (Check all that apply)

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By signing the request (chain of custody) you are ordering work from Analytical Management Laboratories, Inc. which constitutes the acceptance of the terms and conditions on the back of this form.

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15130 B South Keeler Olathe, Kansas 66062 Phone (913) 829-0101 Fax (913) 829-1181

Page 2 of 2
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Delivery Method

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☐ Courier_

☐ Airbill #:

15130 B South Keeler Olathe, Kansas 66062 Phone (913) 829-0101 Fax (913) 829-1181

Custody Seals

Yes
No

☐ Intact

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	353.3WN/N	01/30/2004 17:00	01/15/2004 11:00	EPA-MW-21	\$	433006
ITRATE, CHLORIDE, SULFAT	300.0W	01/30/2004 17:00	01/15/2004 11:00	EPA-MW-21	\$	433006
	RSK175	01/30/2004 17:00	01/15/2004 11:00	EPA-MW-21	\$	433006
	353.3VVN/N	01/30/2004 17:00	01/15/2004 9:30	EPA-MW-22	٤	433005
IITRATE, CHLORIDE, SULFAT	300.0W	01/30/2004 17:00	01/15/2004 9:30	EPA-MW-22	¥	433005
	RSK175	01/30/2004 17:00	01/15/2004 9:30	EPA-MW-22	8	433005
	353.3WN/N	01/30/2004 17:00	01/15/2004 15:45	ST-MW-14	\$	433004
ITRATE, CHLORIDE, SULFAT	300.0W	01/30/2004 17:00	01/15/2004 15:45	ST-MW-14	\$	433004
	RSK175	01/30/2004 17:00	01/15/2004 15:45	ST-MW-14	\$	433004
	*:					
	353.3WN/N	01/30/2004 17:00	01/15/2004 13:45	ST-MW-16	٤	433003
IITRATE, CHLORIDE, SULFAT	300.0W	01/30/2004 17:00	01/15/2004 13:45	ST-MW-16	\$	433003
	RSK175	01/30/2004 17:00	01/15/2004 13:45	ST-MW-16	\$	433003
	353.3WN/N	01/30/2004 17:00	01/15/2004 11:50	EPA-MW-25	\$	433002
ITRATE, CHLORIDE, SULFAT	300.0W	01/30/2004 17:00	01/15/2004 11:50	EPA-MW-25	٤	433002
	RSK175	01/30/2004 17:00	01/15/2004 11:50	EPA-MW-25	\$	433002
MS MSD	RSK175	01/30/2004 17:00	01/15/2004 9:40	EPA-MW-23	\$	433001
	353.3WN/N	01/30/2004 17:00	01/15/2004 9:40	EPA-MW-23	٤	433001
3D, NITRATE, CHLORIDE, SUI	300.0W	01/30/2004 17:00	01/15/2004 9:40	EPA-MW-23	٧	433001
Comments	Procedure	Projected Due Date	Date Collected	Client Sample ID	Matrix	AML Sample
		water sampl	Stanton LTRA Groundwater sampl	Client Project ID	2410	AML Profile Number
			Earth Tech	Client AML ID	4330	AML Project Number

Analytical Management Laboratories - Sample Status and Receipt Report

AML Project Number

4330

Client AML ID

Earth Tech

AML Profile Number

2410

Client Project ID

Stanton LTRA Groundwater sample

Comments	Procedure	Projected Due Date	Date Collected	Client Sample ID	Matrix	AML Sample
IITRATE, CHLORIDE, SULFA	300.0W	01/30/2004 17:00	01/15/2004 13:00	ST-MW-02	W	433007
	RSK175	01/30/2004 17:00	01/15/2004 13:00	ST-MW-02	W	433007
	353.3WN/N	01/30/2004 17:00	01/15/2004 13:00	ST-MW-02	W	433007
IITRATE, CHLORIDE, SULFA	300.0W	01/30/2004 17:00	01/15/2004 15:10	EPA-MW-27	w	433008
	353.3WN/N	01/30/2004 17:00	01/15/2004 15:10	EPA-MW-27	W	433008
	RSK175	01/30/2004 17:00	01/15/2004 15:10	EPA-MW-27	W	433008
	RSK175	01/30/2004 17:00	01/15/2004 11:00	EPA-MW-21D	w	433009
ITRATE, CHLORIDE, SULFA	300.0W	01/30/2004 17:00	01/15/2004 11:00	EPA-MW-21D	W	433009
	353.3WN/N	01/30/2004 17:00	01/15/2004 11:00	EPA-MW-21D	W	433009
	RSK175	01/30/2004 17:00	01/15/2004 16:45	ST-MW-06	w	433010
ITRATE, CHLORIDE, SULFA	300.0W	01/30/2004 17:00	01/15/2004 16:45	ST-MW-06	W	433010
	353.3WN/N	01/30/2004 17:00	01/15/2004 16:45	ST-MW-06	W	433010
IITRATE, SULFATE, CHLOR	300.0W	01/31/2004 17:00	01/16/2004 9:15	ST-MW-15	w	433011
	353.3WN/N	01/31/2004 17:00	01/16/2004 9:15	ST-MW-15	W	433011
	RSK175	01/31/2004 17:00	01/16/2004 9:15	ST-MW-15	W	433011
ITRATE, SULFATE, CHLOR	300.0W	01/31/2004 17:00	01/16/2004 11:20	ST-MW-13	w	433012
	353.3WN/N	01/31/2004 17:00	01/16/2004 11:20	ST-MW-13	W	433012
	RSK175	01/31/2004 17:00	01/16/2004 11:20	ST-MW-13	W	433012

Analytical Management Laboratories - Sample Status and Receipt Report

AML Project Number

4330

Client AML ID

Earth Tech

AML Profile Number

2410

Client Project ID

Stanton LTRA Groundwater sampl

AML Sample	Matrix	Client Sample ID	Date Collected	Projected Due Date	Procedure	Comments
433013	W	EPA-MW-26	01/16/2004 9:00	01/31/2004 17:00	300.0W	IITRATE, SULFATE, CHLORID
433013	w	EPA-MW-26	01/16/2004 9:00	01/31/2004 17:00	353.3WN/N	
433013	W	EPA-MW-26	01/16/2004 9:00	01/31/2004 17:00	RSK175	
433014	w	ST-MW-18	01/16/2004 12:20	01/31/2004 17:00	RSK175	
433014	w	ST-MW-18	01/16/2004 12:20	01/31/2004 17:00	300.0W	IITRATE, SULFATE, CHLORID
433014	w	ST-MW-18	01/16/2004 12:20	01/31/2004 17:00	353.3WN/N	



AML - Sample Condition Upon Receipt Report

Client ID: Project ID:	Earth Tech Stanton LTRA Groundwater samp	AML Work Order Number: 4330 Cooler ID:
Delivery Me	thod	
Delivery Meth	od: Courier	Name of Person Receiving Samples: RS
Couirer	ID: Federal Express	Airbill Number: 842135658751
Custody Sea	ls	
Were Cust	tody Seals Present? 🗹	Cooler Opened By: NS
Were Cu	istody Seals Intact? 🗹	Date Opened:1/16/04
Number	of Custody Seals: 1	
Coolant / Te	emperature plant Used: Ice	Temperature of Cooler: 3.4
Temperature Ta	aken From: Temperature Blank	
	f Custody filled out properly?	Do Chain of Custody and Sample Labels agree?
Comm		
Type of Packi	ing Used? Bubble Wrap	_
Vere correct pre	Were all sample labels complete servatives added to the samples' absent in VOA samples?	Did all the bottles arrive unbroken?
EDD (if appl	icable) Type:	
	□ERPMS	□ Excel
□items	✓ Access 97	□Access 2000
Samples Re	ceived by: <i>NS</i>	
	Date: 1/16/04	Date

A Management Laboratories,

AML - Sample Condition Upon Receipt Report

Client ID: Project ID:	Earth Tech Stanton LTRA Groundwater sampl	AML Work Order Number: Cooler ID:	4330
Delivery Me		Name of Person Receiving Samples:	NS
•	ID: Federal Express	Airbill Number:	
		Airbii işuniber.	04210000110
Custody Sea			NG
	tody Seals Present?	Cooler Opened By:	<u> </u>
	ustody Seals Intact?	Date Opened:	1/1 //04
Number	of Custody Seals: 1		
Coolant / To	emperature		
Type of Co	olant Used: Ice	Temperature of Cooler:	3.1
Temperature T	aken From: Temperature Blank		
Chain of Cu	stody f Custody filled out properly?	Do Chain of Custody and Sample	2
		Labels agree?	
Comm	ents		
Type of Pack	ing Used? Bubble Wrap		
	Were all sample labels complete?	Were all bottles sealed in sepa	erate plactic bags?
Vere correct pre	eservatives added to the samples?		
	s absent in VOA samples?		arrive unbroken?
vere an outbook		was a sufficient amount of sample sam	-
EDD (if app	licable) Type:		
□None	□erpms	□Excel	
□ ITEMS	☑ Access 97	Access 2000	
Samples Re	eceived by: <i>NS</i>		
	Date: 1/17/04	Date	

8421 3565 8751	City Charte State KS 21P 66062	Address 15/30 6 South Kerne for Manner dates of P.D. Douge or P.D. 20 codes Address	And Language Phone 913 829-0101	2 Your Intermal Billing Reference 5 41/20	Address 110 Cotto Mill Corel	Name John Husman Phone 514 352-4133	Dens 115104 ESTESMESTER ESTERNIS	Express USA Airbill August 842135658751
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MEE Field Sample Data

Batch 1011

Lab Name: Analytical Mana	gment Laboratories	Sample ID: EP	A-MW-23	:		
Client ID: Earth Tech		Project ID Sta	anton LTRA (Groundwa	ater sampl	
Matrix: W		Project Num 4	330			
Sample g/ml: 44		Lab Sample ID:	433001			
% Solids: not dec.		Date Collected:	1/15/04		Time: 9:40	
Instrument ID V5890B		Dilution Factor:	1			
Analytical Method: RSK-175	;	Date Analyzed:	1/21/03			
Prep Method: RSK175		Date Received:	1/16/04 9:4	0:00 AM		
Analytical Batch: 1011						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84-0	Ethane		μg/l	U	1.5	10
74-85-1	Ethene		µg∕l	U	1.5	10
74-82-8	Methane		μg/l	U	1.5	10

1

Lab Name: Analytical Ma	nagment Laboratories	Sample ID: EP	A-MW-25_			
Client ID: Earth Tech		Project ID Sta	anton LTRA	Groundwa	ater sampi	<u> </u>
Matrix: W		Project Num 4	330			
Sample g/ml: 44		Lab Sample ID:	433002			
% Solids: not dec.		Date Collected:	1/15/04		Time: 11:50)
Instrument ID V5890B		Dilution Factor:	1		<u>-</u>	
Analytical Method: RSK-1	75	Date Analyzed:	1/21/03			
Prep Method: RSK175		Date Received:	1/16/04 9:4	0:00 AM		
Analytical Batch: 1011						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84-0	Ethane		μд∕1	U	1,5	10
74-85-1	Ethene		μдЛ	U	1.5	10
74-82-8	Methane		µg∕1	U	1.5	10

EPA Lab Code:KS00902 Kansas Certification:E-10254

FORM I VOA - Equivalent

Lab Name:	Analytical Managment	Laboratories	Sample ID: ST	-MW-16				
Client ID: Earth Tech			Project ID Stanton LTRA Groundwater sampl					
Matrix: W			Project Num 4330					
Sample g/ml: 44		Lab Sample ID: 433003						
% Solids: not dec.		Date Collected:	1/15/04		Time: <u>13:45</u>			
Instrument ID V5890B		Dilution Factor:	1					
Analytical Method: RSK-175		Date Analyzed:	1/21/03					
Prep Method: RSK175		Date Received:	1/16/04 9:40:00 AM					
Analytical Ba	atch: 1011							
CAS N	vo. c	OMPOUND	RESULT	Units	Q	LLR	MQL	
74-84	-0	Ethane		µg∕l	U	1.5	10	
74-85	-1	Ethene		µg∕l	U	1.5	10	
74-82	_A	Methane		ual	11	1.5	10	

Lab Name: Analytical M	anagment Laboratories	Sample ID: ST	-MW-14					
Client ID: Earth Tech Matrix: W Sample g/ml: 44 % Solids: not dec. Instrument ID V5890B Analytical Method: RSK-175 Prep Method: RSK175		Project ID Stanton LTRA Groundwater sampl Project Num 4330						
								Lab Sample ID: 433004
		Date Collected:	1/15/04		Time: <u>15:45</u>			
		Dilution Factor:						
		Date Analyzed: Date Received:	1/21/03 1/16/04 9:40:00 AM					
								Analytical Batch: 1011
		CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84-0	Ethane		µg∕l	U	1.5	10		
74-85-1	Ethene		µg∕l	U	1.5	10		
74-82-8	Methane		μg∕I	U	1.5	10		

EPA Lab Code:KS00902 Kansas Certification:E-10254

FORM I VOA - Equivalent

Lab Name: Analytical M	anagment Laboratories	Sample ID: EP	A-MW-22				
Client ID: Earth Tech		Project ID Sta	anton LTRA	Groundwa	iter sampl		
Matrix: W		Project Num 4330					
Sample g/ml: 44		Lab Sample ID:	433005				
% Solids: not dec.		Date Collected:	1/15/04	1	fime: 9:30		
Instrument ID V5890B		Dilution Factor:	1				
Analytical Method: RSK	-175	Date Analyzed:	1/21/03				
Prep Method: RSK175		Date Received:	: <u>1/16/04 9:40:00 AM</u>				
Analytical Batch: 1011							
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL	
74-84-0	Ethane		µg∕l	U	1.5	10	
74-85-1	Ethene		µg∕l	U	1.5	10	
74-82-8	Methane		µg∕l	U	1.5	10	

Lab Name: Analytical	Managment Laboratories	Sample ID: _EF	PA-MW-21				
Client ID: Earth Tech	·	Project ID Sta	enton LTRA	Groundw	ater sampl		
Matrix: W Sample g/ml: 44 % Solids: not dec. Instrument ID V5890B Analytical Method: RSK-175		Project Num 4330					
		Lab Sample ID: 433006					
		Date Collected:	1/15/04		Time: 11:00		
		Dilution Factor:					
		Date Analyzed:	1/21/03				
Prep Method: RSK175		Date Received:	1/16/04 9:40:00 AM				
Analytical Batch: 1011					•		
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL	
74-84-0	Ethane		µg∕l	U	1.5	10	
74-85-1	Ethene		µg∕!	U	1.5	10	
74-82-8	Methane		uaA	U	1.5	10	

Lab Name: Analytical Mana	agment Laboratories	Sample ID: ST	-MW-02				
Client ID: Earth Tech		_ Project ID Sta	anton LTRA (Groundwa	ter sampl		
Matrix: W		Project Num 4330					
Sample g/ml: 44		Lab Sample ID: 433007					
% Solids: not dec.		Date Collected: 1/15/04 Time: 13:00					
Instrument ID V5890B		Dilution Factor:	1				
Analytical Method: RSK-175		Date Analyzed:	1/21/03				
Prep Method: RSK175		Date Received:	1/16/04 9:40:00 AM				
Analytical Batch: 1011							
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL	
74-84-0	Ethane		μ g/1	U	1.5	10	
74-85-1	Ethene		µg∕f	U	1.5	10	
74-82-8	Methane		μg/1	U	1.5	10	

Lab Name: Analytical Managn	nent Laboratories	Sample ID: EPA-MW-27						
Client ID: Earth Tech		Project ID Sta	Project ID Stanton LTRA Groundwater sampl					
Matrix: W		Project Num 4330						
Sample g/ml: 44		Lab Sample ID: 433008						
% Solids: not dec.		Date Collected:	1/15/04		Time: <u>15:10</u>			
Instrument ID V5890B		Dilution Factor:	1					
Analytical Method: RSK-175		Date Analyzed:	1/21/03					
Prep Method: RSK175		Date Received:	I: 1/16/04 9:40:00 AM					
Analytical Batch: 1011								
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL		
74-84-0	Ethane		µg∕1	U	1.5	10		
74-85-1	Ethene		μg/ī	U	1.5	10		
74-82-8	Methane		μдЛ	U	1.5	10		

EPA Lab Code: KS00902 Kansas Certification: E-10254

Lab Name: Analytical Manag	rment Laboratories	Sample ID: EPA-MW-21D						
Client ID: Earth Tech		Project ID Stanton LTRA Groundwater sampl						
Matrix: W		Project Num 4	330					
Sample g/ml: 44		Lab Sample ID:	433009					
% Solids: not dec.		Date Collected:	1/15/04		Time: 11:00			
Instrument ID V5890B		Dilution Factor:	1			_		
Analytical Method: RSK-175		Date Analyzed:	1/21/03					
Prep Method: RSK175	_	Date Received:	1/16/04 9:40:00 AM					
Analytical Batch: 1011								
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL		
74-84-0	Ethane		μg/l	U	1.5	10		
74-85-1	Ethene		µg∕l	U	1.5	10		
74-82-8	Methane		µg∕l	U	1.5	10		

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name: Analytical Man	agment Laboratories	Sample ID: S1	Sample ID: ST-MW-06						
Client ID: Earth Tech	4	Project ID Sta	anton LTRA	Groundw	ater sampl				
Matrix: W		Project Num 4	Project Num 4330						
Sample g/ml: 44		Lab Sample ID:	433010						
% Solids: not dec.		Date Collected:	1/15/04		Time: 16:45				
Instrument ID V5890B		Dilution Factor:	1						
Analytical Method: RSK-1	75	Date Analyzed:	Date Analyzed: 1/21/03						
Prep Method: RSK175		Date Received:	l: 1/16/04 9:40:00 AM						
Analytical Batch: 1011					_				
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL			
74-84-0	Ethane		μg/l	U	1.5	10			
74-85-1	Ethene		µg∕l	U	1.5	10			
74-82-8	Methane		µg∕l	U	1.5	10			

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name: Analytical Mana	gment Laboratories	Sample ID: ST-MW-15						
Client ID: Earth Tech	<u></u> _	Project ID Stanton LTRA Groundwater sampl						
Matrix: W		Project Num 4	330					
Sample g/ml: 44		Lab Sample ID:	433011					
% Solids: not dec.		Date Collected:	1/16/04		Time: 9:15			
Instrument ID V5890B		Dilution Factor:	1					
Analytical Method: RSK-17	5	Date Analyzed:	1/21/03					
Prep Method: RSK175	_	Date Received:	1/17/04 4:0	0:00 <u>P</u> M	l			
Analytical Batch: 1011						_		
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL		
74-84-0	Ethane		μg/l	U	1.5	10		
74-85-1	Ethene		µg∕l	υ	1.5	10		
74-82-8	Methane		ua/l	u	1.5	10		

Lab Name: Analytical Manag	ment Laboratories	Sample ID: ST	-MW-13					
Client ID: Earth Tech		Project ID Stanton LTRA Groundwater sampl						
Matrix: W		Project Num 4330						
Sample g/ml: 44		Lab Sample ID:	433012	_				
% Solids: not dec.		Date Collected:	1/16/04	·	Time: 11:20			
instrument ID V5890B		Dilution Factor:	1					
Analytical Method: RSK-175		Date Analyzed:	1/21/03					
Prep Method: RSK175	-	Date Received:	: 1/17/04 4:00:00 PM					
Analytical Batch: 1011								
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL		
74-84-0	Ethane		μg/l	υ	1.5	10		
74-85-1	Ethene		µg∕l	υ	1.5	10		
74-82-8	Methane		µg∕l	υ	1.5	10		

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name: Analytical Mai	nagment Laboratories	Sample ID: EPA-MW-26					
Client ID: Earth Tech	Project ID Sta	anton LTRA (Groundwa	ater sampl			
Matrix: W		Project Num 4330					
Sample g/ml: _44		Lab Sample ID:	433013				
% Solids: not dec.		Date Collected:	1/16/04		Time: 9:00		
Instrument ID V5890B		Dilution Factor:	1				
Analytical Method: RSK-1	75	Date Analyzed:	: 1/21/03				
Prep Method: RSK175		Date Received:	: 1/17/04 4:00:00 PM				
Analytical Batch: 1011							
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL	
74-84-0	Ethane		µg∕l	U	1.5	10	
74-85-1	Ethene		µg∕1	U	1.5	10	
74-82-8	Methane		µg∕l	U	1.5	10	

Lab Name: Analytical Managr	nent Laboratories	Sample ID: ST	-MW-18			
Client ID: Earth Tech		Project ID Sta	anton LTRA (G <u>round</u> wa	iter sampl	
Matrix: W		Project Num 4	330			
Sample g/ml: 44		Lab Sample ID:	433014			
% Solids: not dec.		Date Collected:	1/16/04		Time: 12:20	
Instrument ID V5890B		Dilution Factor:	1			
Analytical Method: RSK-175		Date Analyzed:	1/21/03			
Prep Method: RSK175		Date Received:	1/17/04 4:0	0:00 PM		
Analytical Batch: 1011	· ·		: .			
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL
74-84-0	Ethane		µg∕1	U	1.5	10
74-85-1	Ethene		µg∕1	U	1.5	10
74-82-8	Methane		μg/I	U	1.5	10

Anions Field Sample Data

Batch 1186

Lab Name:	Analytical Mar	nagment Lab	oratories	Sample ID: E	PA-MW-2	23			
Client ID:	Earth Tech	Project ID Stanton LTRA Groundwater sampl							
Matrix: W				Project Num	4330	•		_	
Sample g/ml:	1			Lab Sample ID	: 43300	11			
% Solids: not	dec.			Date Collected	: 1/15/04	· _	Time:	9:40	
Instrument II	D LD120	Date Received: 1/16/04 9:40:00 AM							
Injection Vol	ume: 1	(mL)		Analytical Meth	nod: <u>EP</u>	A 300.0			
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF
1/16/04	1186	5835	Chloride	103	mg/l	E	0.1	0.5	1
1/16/04	1186	5835	Sulfate	48.3	mg/l	Ε	. 0.2	1	1

Lab Name:	Analytical Man	Sample ID: EPA-MW-25								
Client ID: E	arth Tech			Project ID Stanton LTRA Groundwater sampl						
Matrix: W				Project Num	4330					
Sample g/ml:	1			Lab Sample ID	: <u>4330</u> 0	2				
% Solids: not d	Date Collected: 1/15/04 Time: 11:50									
Instrument ID	LD120	Date Received: 1/16/04 9:40:00 AM								
Injection Volum	me:1	(mL)		Analytical Meth	nod: <u>EP</u>	A 300.0				
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/16/04	1186	5835	Chloride	117	mg/l	E	0.1	0.5	1	
1/16/04	1186	5835	Sulfate	40.2	mg/l	E	0.2	1	1	

Lab Name:	Analytical Man	Sample ID: ST-MW-16						_		
Client ID: E	arth Tech	Project ID Stanton LTRA Groundwater sampl								
Matrix: W	Project Num	4330								
Sample g/ml:	1			Lab Sample ID	: 43300	3				
% Solids: not dec.				Date Collected: 1/15/04 Time: 13:45						_
Instrument ID	LD120	Date Received: 1/16/04 9:40:00 AM								
Injection Volu	me: <u>1</u>	_ (mL)		Analytical Meth	od: EP	A 300.0				
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/16/04	1186	5835	Chloride	91.4	mg/l	E	0.1	0.5	1	
1/16/04	1186	5835	Sulfate	219	mg/1	E	0.2	1	1	

Lab Name:	Analytical Mar	agment Lab	oratories	Sample ID: ST-MW-14						
Client ID: E	arth Tech			Project ID Stanton LTRA Groundwater sampl						
Matrix: W				Project Num	4330					
Sample g/ml:	1			Lab Sample ID:	43300	4				
% Solids: not o	Date Collected: 1/15/04 Time: 15:45									
Instrument ID	Date Received: 1/16/04 9:40:00 AM									
Injection Volu	me: 1	(mL)	_	Analytical Meth	od: <u>EP</u>	A 300,0				
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/16/04	1186	5835	Chloride	75.4	mg/l	E	0.1	0.5	1	
1/16/04	1186	5835	Sulfate	55.5	mg/l	E	0.2	1	1	

Lab Name: Analytical Managment Laboratori	Sample ID: EPA-MW-22
Client ID: Earth Tech	Project ID Stanton LTRA Groundwater sampl
Matrix: W	Project Num 4330
Sample g/ml: 1	Lab Sample ID: 433005
% Solids: not dec.	Date Collected: 1/15/04 Time: 9:30
Instrument ID LD120	Date Received: 1/16/04 9:40:00 AM
Injection Volume: 1 (mL)	Analytical Method: EPA 300.0
Date Analytical Prep Analyzed Batch Batch Co	MPOUND RESULT Units Q LLR MQL DF
1/16/04 1186 5835	Chloride 86.3 <i>mg/</i> 1 E 0.1 0.5 1
1/16/04 1186 5835	Sulfate 25.6 mg/l 0.2 1 1

Lab Name: Analytical Managment Laboratories				Sample ID: EPA-MW-21								
Client ID:	Earth Tech			Project ID Stanton LTRA Groundwater sampl								
Matrix: W				Project Num	4330							
Sample g/ml:	1			Lab Sample ID	: 43300	6						
% Solids: not o	Solids: not dec.			Date Collected	: 1/15/04	1	Time:	11:00				
Instrument ID	nstrument ID LD120			Date Received: 1/16/04 9:40:00 AM								
Injection Volu	me: <u>1</u>	_ (mL)	_	Analytical Meth	nod: <u>EP</u>	A 300.0						
Date Analyzed	Analytical Batch	Prep Balch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF			
1/16/04	1186	5835	Chloride	265	mg/l	Ē	0.1	0.5	1			
1/16/04	1186	5835	Sulfate	66.3	ma/l	Ε	0.2	1	1			

Lab Name:	Analytical Mar	nagment Lab	oratories	Sample ID: S	ST-MW-02					
Client ID:	Earth Tech			Project ID S	Stanton LT	RA Groun	dwater san	npl		
Matrix: W				Project Num	4330					
Sample g/ml:	1			Lab Sample ID	: 43300	7				
% Solids: not	dec.			Date Collected	1/15/04		Time:	13:00		
Instrument ID	LD120			Date Received	: 1/16/04	9:40:00 A	M			
Injection Volu	ume: ; 1	_ (mL)		Analytical Meth	nod: <u>EP</u>	A 300.0	_		_	
Date Analyzed	Analyticəl Bətch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/16/04	1186	5835	Chloride	121	mg/I	E	0.1	0.5	1	
1/16/04	1186	5835	Sulfate	77	mg/l	E	0.2	1	1	

Lab Name:	Analytical Mar	agment Labo	oratories	Sample ID: E	PA-MW-2	7			
Client ID: E	Earth Tech			Project ID S	Stanton LT	RA Ground	lwater sar	npl	
Matrix: W				Project Num	4330				
Sample g/ml:	1			Lab Sample ID	43300	8			
% Solids: not o	iec.			Date Collected	: 1/15/04	ļ	Time:	15:10	
Instrument ID	LD120			Date Received	: 1/16/04	9:40:00 A	M		
Injection Volum	me: 1	_ (mL)		Analytical Meth	nod: EP	A 300.0			
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF
1/16/04	1186	5835	Chloride	143	mg/l	E	0.1	0.5	1
1/16/04	1186	5835	Sulfate	39.9	ma/l		0.2	1	1

Lab Name:	Analytical Mai	nagment Lab	oratories	Sample ID:	PA-MW-2	21D						
Client ID:	Earth Tech			Project ID Stanton LTRA Groundwater sampl								
Matrix: W				Project Num	4330							
Sample g/ml:	1			Lab Sample ID	: 43300	9						
% Solids: not	dec.			Date Collected	: 1/15/04	l	Time:	11:00				
Instrument II	D LD120			Date Received	1/16/04	9:40:00 A	\M					
Injection Vol	ume: 1	(mL)		Analytical Meth	od: <u>EP</u>	A 300.0						
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q.	LLR	MQL	DF			
1/16/04	1186	5835	Chloride	255	mg/l	Ē	0.1	0.5	1			

64.7

mg/l

Sulfate

1/16/04

1186

5835

E

0.2

1

1

Lab Name:	Analytical Man	agment Labo	oratories	Sample ID: S	T-MW-06							
Client ID: E	arth Tech			Project ID Stanton LTRA Groundwater sampl								
Matrix: W				Project Num	4330							
Sample g/ml:	1			Lab Sample ID	43301	0						
% Solids: not o	iec.			Date Collected:	1/15/04	1	Time:	16:45				
Instrument ID	LD120			Date Received:	1/16/04	9:40:00 A	M					
Injection Volu	me: 1	_ (mL)		Analytical Meth	od: EP	A 300.0						
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF			
1/16/04	1186	5835	Chloride	48.7	mg/l	E	0.1	0.5	1			
1/16/04	1186	5835	Sulfate	7.44	ma/l		0.2	1	1			

Anions Field Sample Data

Batch 1189

Lab Name:	Analytical Mar	agment Labora	tories	Sample ID: EPA-MW-23								
Client ID: E	Earth Tech		<u>-</u>	Project ID Stanton LTRA Groundwater sampl								
Matrix: W				Project Num	4330							
Sample g/ml:	1			Lab Sample ID	: 43300	1						
% Solids: not d	lec.			Date Collected	: 1/15/04	1	_ Time:	9:40				
Instrument ID LD120				Date Received	1/16/04	9:40:00	AM					
Injection Volum	me: <u>1</u>	_ (mL)		Analytical Meth	od: <u>EP</u>	A 300.0						
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF			
1/22/04	1189	5943	Chloride	90.6	mg/l	- -	1	5	10			
4 /22/04	4100	50.42	Culfata	47.4	a/l		2	10	10			

Lab Name:	Analytical Mar	nagment Lab	oratories	Sample ID: E	PA-MW-2	5						
Client ID:	Earth Tech			Project ID Stanton LTRA Groundwater sampl								
Matrix: W				Project Num	4330							
Sample g/mt:	1			Lab Sample ID	43300	2						
% Solids: not	dec.			Date Collected:	1/15/04	, _	Time:	11:50				
instrument ID	LD120			Date Received:	1/16/04	9:40:00	AM					
Injection Volu	ume: <u>1</u>	_ (mL)		Analytical Meth	od: <u>EP</u>	A 300.0						
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF			
1/22/04	1189	5943	Chloride	104	mg/l	-	1	5	10			

41.7

mg/l

Sulfate

1/22/04

1189

5943

10

10

Lab Name:	Analytical Man	agment Lab	oratories	Sample ID: S	T-MW-16							
Client ID: 8	Earth Tech			Project ID Stanton LTRA Groundwater sampl								
Matrix: W		_		Project Num	4330							
Sample g/ml:	1			Lab Sample ID	43300	3						
% Solids: not o	dec.			Date Collected	1/15/04		Time:	13:45				
Instrument ID	LD120_			Date Received	1/16/04	9:40:00	AM					
Injection Volu	me:1	(mL)		Analytical Meth	od: EP	A 300.0						
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF			
1/22/04	1189	5943	Chloride	81.9	mg/l		1	5	10			
1/22/04	1189	5943	Sulfate	182	mg/l		2	10	10			

Lab Name:	Analytical Mar	Sample ID: ST-MW-14									
Client ID:	Earth Tech			Project ID Stanton LTRA Groundwater sampl							
Matrix: W				Project Num	4330					_	
Sample g/ml:	1			Lab Sample ID	: 43300	4				_	
% Solids: not o	dec.			Date Collected	: 1/15/04	<u> </u>	Time:	15:45			
Instrument ID	LD120			Date Received	: 1/16/04	9:40:00	AM			•	
Injection Volu	me: 1	_ (mL)		Analytical Meth	nod: EP	A 300.0					
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/22/04	1189	5943	Chloride	56.9	mg/l	-	0.5	2.5	5		
1/22/04	1189	5943	Sulfate	43.6	mg/l		1	5	5		

Lab Name:	Analytical Man	agment Labor	ratories	Sample ID: E	PA-MW-2	2						
Client ID:	arth Tech			Project ID Stanton LTRA Groundwater sampl								
Matrix: W				Project Num	4330		_					
Sample g/ml:	1			Lab Sample ID:	43300	5						
% Solids: not d	lec.			Date Collected:	1/15/04		Time:	9:30				
Instrument ID	LD120			Date Received:	1/16/04	9:40:00	AM					
Injection Volur	me: <u>1</u>	(mL)		Analytical Method: <u>EPA 300,0</u>								
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF			
1/22/04	1189	5943	Chloride	80	ma/l	-	1	5	10			

Lab Name:	Analytical Mar	Sample ID: EPA-MW-21										
Client ID: E	Earth Tech			Project ID Stanton LTRA Groundwater sampl								
Matrix: W				Project Num	4330							
Sample g/ml:	1			Lab Sample ID	2: 43300	6						
% Solids: not o	dec			Date Collected	l: 1/15/04	\$	Time:	11:00				
Instrument ID	LD120			Date Received	: 1/16/04	9:40:00	AM					
Injection Volu	me: <u>1</u>	_ (mL)		Analytical Meth	nod: <u>EP</u>	A 300.0						
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF			
1/22/04	1189	5943	Chloride	200	rng/l	·	, 2	10	20			
1/22/04	1189	5943	Sulfate	59.2	mg/l		4	20	20			

Lab Name:	Analytical Mar	nagment Lab	oratories	Sample ID: ST-MW-02								
Client ID:	Earth Tech			Project ID Stanton LTRA Groundwater sampl								
Matrix: W				Project Num	4330							
Sample g/ml:	1			Lab Sample ID	: 43300	7						
% Solids: not	dec.			Date Collected	: 1/15/04		Time:	13:00				
Instrument IE	LD120			Date Received	: 1/16/04	9:40:00	AM					
Injection Volu	ıme: <u>1</u>	(mL)	_	Analytical Meth	nod: EP	A 30 <u>0.0</u>						
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF			
1/22/04	1189	5943	Chloride	98	mg/l	•	1	5	10			
1/22/04	1189	5943	Sulfate	64.9	mg/l		2	10	10			

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Lab Name:	Analytical Mar	agment Lab	oratories	Sample ID: EPA-MW-27 Project ID Stanton LTRA Groundwater sampl							
Client ID:	Earth Tech										
Matrix: W				Project Num 4330							
Sample g/ml:	1			Lab Sample ID: 433008							
% Solids: not dec. Instrument ID LD120			Date Collected:	1/15/04	1/15/04 Time: 15:10						
			Date Received: 1/16/04 9:40:00 AM								
Injection Volu	me: 1	_ (mL)		Analytical Method: <u>EPA 300.0</u>							
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/22/04	1180	5943	Chloride	113	mal	-	1	5	10		

Lab Name: Analytical Managment Laboratories				Sample ID: EPA-MW-21D							
Client ID:	Earth Tech			Project ID Stanton LTRA Groundwater sampl							
Matrix: W				Project Num 4330							
Sample g/ml:	1			Lab Sample ID	: 43300	9					
% Solids: not dec.				Date Collected: 1/15/04 Time: 11:0				11:00			
Instrument ID LD120				Date Received	: 1/16/04	9:40:00	AM				
Injection Volu	ime; 1	_ (mL)		Analytical Meth	od: EP	A 300.0					
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/22/04	1189	5943	Chloride	192	mg/l	_	2	10	20		
1/22/04	1189	5943	Sulfate	58	mg/l		4	20	20		

Lab Name:	Analytical Mar	Sample ID: ST-MW-06									
Client ID:	Earth Tech_			Project ID Stanton LTRA Groundwater sampl							
Matrix: W				Project Num 4330							
Sample g/ml:	1			Lab Sample ID	43301	0					
% Solids: not dec.				Date Collected:	Time: 16:45						
Instrument ID LD120			Date Received: 1/16/04 9:40:00 AM								
Injection Volu	me: <u>1</u>	_ (mL)		Analytical Method: EPA 300.0							
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/22/04	1180	5043	Chloride	43.3	ma/l	_	0.5	2.5	5		

Lab Name:	Analytical Mar	Sample ID: ST-MW-15									
Client ID: E	arth Tech			Project ID Stanton LTRA Groundwater sampl							
Matrix: W				Project Num 4330							
Sample g/ml:	1			Lab Sample ID	: 43301	1					
% Solids: not dec.				Date Collected: 1/16/04 Time: 9:15							
Instrument ID LD120				Date Received: 1/17/04 4:00:00 PM							
Injection Volum	me: 1	(mL)		Analytical Meth	od: EP	A 300,0					
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/22/04	1189	5943	Chloride	63.3	mg/l	*	1	5	10		
1/22/04	1189	5943	Sulfate	48.5	mg/l		2	10	10		

Lab Name:	Analytical Mar	nagment Labo	ratories	Sample ID: S	T-MW-13						
Client ID:	Earth Tech			Project ID Stanton LTRA Groundwater sampl							
Matrix: W				Project Num	4330						
Sample g/ml:	1			Lab Sample ID	43301	2			_		
% Solids: not	dec.			Date Collected:	1/16/04	}	Time:	11:20			
Instrument ID	LD120			Date Received:	1/17/04	4:00:00	PM				
Injection Volu	me: 1	_ (mL)		Analytical Meth	od: <u>EP</u>	A 300.0					
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/22/04	1189	5943	Chloride	75.6	mg/l	~	1	5	10		
1/22/04	1189	5943	Sulfate	49.5	mg/l		2	10	10		

Lab Name: Analytical Managment Laboratories				Sample ID: EPA-MW-26							
Client ID:	Earth Tech			Project ID Stanton LTRA Groundwater sampl							
Matrix: W				Project Num 4330							
Sample g/ml:	1			Lab Sample ID	: 43301	3					
% Solids: not dec.				Date Collected: 1/16/04 Time: 9:00							
Instrument ID LD120			Date Received	: 1/17/04	4:00:00	PM					
Injection Volu	me: 1	(mL)		Analytical Meth	od: EP	A 300.0					
Date Analyzed	Analyticai Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/22/04	1189	5943	Chloride	176	mg/l	7	1	5	10		
1/22/04	1189	5943	Sulfate	42.3	ma/l		2	10	10		

Lab Name:	Analytical Mar	nagment Lab	oratories	Sample ID: ST-MW-18							
Client ID:	Earth Tech			Project ID Stanton LTRA Groundwater sampl							
Matrix: W				Project Num 4330							
Sample g/ml:	1			Lab Sample (D	: 43301	4					
% Solids: not	dec.			Date Collected: 1/16/04 Time: 12:20							
Instrument ID LD120				Date Received: 1/17/04 4:00:00 PM							
Injection Volu	ıme: <u>1</u>	(mL)		Analytical Meth	od: <u>EP</u>	A 300.0					
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/22/04	1189	5943	Chloride	63.3	mg/l	-	1	5	10		
1/22/04	1189	5943	Sulfate	59.1	mg/l		2	10	10		

Nitrates Field Sample Data

Batch 1706

1 - Equivalent INORGANICS ANALYSIS DATA SHEET

Lab Name: Analyt	ical Management Laboratories	Sample ID	: EPA-MV	N-23							
Client ID: Earth T	ech	Project ID Stanton LTRA Groundwater sampl									
Matrix: W		Project Nu	Project Num 4330								
Sample g/ml: 10.00	0	Lab Sampl	Lab Sample ID: 433001								
% Solids: not dec.		Analytical I	Analytical Batch 1706			Prep Batch 6021					
Instrument ID		Date Colle	cted: 1/15	5/04	Time:	9:40					
		Date Rece	ived: <u>1/16</u>	6/04 9:40:0	00 AM						
Analytical Method: EPA 353.3		Date Analy	Date Analyzed: 1/26/04								
Prep Method:		Date Prepa	Date Prepared: 1/26/04								
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL	DIL				
Nitrate	Nitrate	5.27	mg/L		0.1	0.4	10				
N/N	Nitrate/Nitrite	5.27	mg/L		0.1	0.4	10				
Nitrite	Nitrite		mg/L	IJ	0.01	0.04	1				

1 - Equivalent INORGANICS ANALYSIS DATA SHEET

Lab Name: Analytic	al Management Laboratories	Sample ID:	Sample ID: EPA-MW-25								
Client ID: Earth Te	ch	Project ID	Project ID Stanton LTRA Groundwater sampl Project Num 4330								
Matrix: W		Project Num									
Sample g/ml: 10.00		Lab Sample	Lab Sample ID: 433002 Analytical Batch 1706								
% Solids: not dec.		Analytical Ba				Prep Batch 6021					
Instrument ID		Date Collecte	Date Collected: 1/15/04			Time: 11:50					
		Date Receive	Date Received: 1/16/04 9:40:00		00 AM						
Analytical Method: EPA 353.3		Date Analyze	Date Analyzed: 1/26/04								
Prep Method:		Date Prepare	Date Prepared: 1/26/04		_ _						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL	DIL				
Nitrate	Nitrate	3.44	mg/L		0.1	0.4	10				
N/N	Nitrate/Nitrite	3.44	mg/L		0.1	0.4	10				
Nitrite	Nitrite		ma/l	11	0.01	0.04	4				

Lab Name: Analyti	ical Management Laboratories	Sample ID	: ST-MW-	-16				
Client ID: Earth T	ech	Project ID	Stanton	LTRA Gr	oundwater sa	mpl		
Matrix: W		Project Nu	Project Num 4330					
Sample g/ml: 10.00)	Lab Samp	ie ID: 433	3003				
% Solids: not dec.	% Solids: not dec.		Batch 170)6	Prep Batch 6021			
Instrument ID		Date Colle	cted: 1/15	5/04	Time:	13:45		
-	_	Date Rece	ived: 1/16	VO4 9:40:	00 AM			
Analytical Method:	EPA 353.3	Date Analy	/zed: 1/26	/04				
Prep Method:		Date Prepa	ared: 1/26	/04				
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL	DIL	
Nitrate	Nitrate	19	mg/L	·	1	4	100	
N/N	Nitrate/Nitrite	19	mg/L		1	4	100	
Nitrite	Nitrite		ma/L	U	0.01	0.04	1	

Lab Name: Analyti	cal Management Laboratories	Sample ID:	ST-MW	-14					
Client ID: Earth To	ech	Project ID Stanton LTRA Groundwater sampl							
Matrix: W		Project Num	4330						
Sample g/ml: 10.00	<u>)</u>	Lab Sample (I	Lab Sample ID: 433004						
% Solids: not dec.		Analytical Batch 170		06	Prep Ba				
Analytical Method: EPA 353.3		Date Collected: 1/15/04		Time: 15:45					
		Date Received: 1/16/04 9:40:00			00 AM				
		Date Analyzed	alyzed: 1/26/04						
Prep Method:		Date Prepared: 1/26/04		6/04					
CAS NO.	COMPOUND	RESULT (Jnits	Q	LLR	MQL	DIL		
Nitrate	Nitrate	3.49	ng/L		0.1	0.4	10		
N/N	Nitrate/Nitrite	3.49	ng/L		0.1	0.4	10		
Nitrite	Nitrite	,	na/l	1.1	0.01	0.04	1		

Lab Name: Analy	tical Management Laboratories	Sample ID: EPA-MW-22							
Client ID: Earth	Tech	Project ID Stanton LTRA Groundwater sampl							
Matrix: W		Project Num	Project Num 4330						
Sample g/ml: 10.0	00	Lab Sample ID:	433	005					
% Solids: not dec.	· · · · · · · · · · · · · · · · · · ·	Analytical Batcl			Prep Batch 6021				
Instrument ID	nstrument ID	Date Collected:			Time:	9:30			
_		Date Received:	Date Received: 1/16/04 9:40:00						
Analytical Method:	EPA 353.3	Date Analyzed:	Date Analyzed: 1/26/04 Date Prepared: 1/26/04						
Prep Method:		Date Prepared:							
CAS NO.	COMPOUND	RESULT U	nits	Q	LLR	MQL	DIL		
Nitrate	Nitrate	1.84 mg	g/L		0.1	0.4	10		
N/N	Nitrate/Nitrite	1.84 m	g/L		0.1	0.4	10		
Nitrita	Nitrito	· m	~/I	13	0.01	0.04	1		

Lab Name: Analy	tical Management Laboratories	Sample ID:	EPA-MV	V-21					
Client ID: Earth	Tech	Project ID Stanton LTRA Groundwater sampl							
Matrix: W		Project Num	Project Num 4330						
Sample g/ml: _10.0	00	Lab Sample	Lab Sample ID: 433006						
% Solids: not dec.		Analytical Batch 170		1706 Prep Batch					
Instrument ID		Date Collect	Date Collected: 1/15/04 Time		Time:	e: <u>11:00</u>			
		Date Receiv	ed: 1/16	/04 9:40:0	00 AM				
Analytical Method:	EPA 353.3	Date Analyz	Date Analyzed: 1/26/04						
Prep Method:		Date Prepared: 1/26/04							
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL	DIL		
Nitrate	Nitrate	8.44	mg/L		0.1	0.4	10		
N/N	Nitrate/Nitrite	8.44	mg/L		0.1	0.4	10		
Nitrite	Nitrite		mg/L	U	0.01	0.04	1		

Lab Name: Analytic	cal Management Laboratories	Sample ID:	ST-MW	-02	····				
Client ID: Earth Te	ech	Project ID Stanton LTRA Groundwater sampl							
Matrix: W		Project Num	4330						
Sample g/ml: 10.00	<u> </u>	Lab Sample	ID: 43	3007					
% Solids: not dec.		Analytical Ba	tch _17	06	Prep Bal	Prep Batch 6021			
Instrument ID		Date Collected: 1/15/04 Time:				13:00			
		Date Receive	ed: <u>1/16</u>	6/04 9:40:	00 AM				
Analytical Method:	EPA 353.3	Date Analyze	ed: <u>1/26</u>	6/04					
Prep Method:		Date Prepared: 1/26/04							
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL	DIL		
Nitrate	Nitrate	4.65	mg/L		0.1	0.4	10		
N/N	Nitrate/Nitrite	4.65	mg/L		0.1	0.4	10		
Nitrite	Nitrite		ma/L	U	0.01	0.04	1		

Lab Name: Analytical Man	agement Laboratories	Sample ID:	EPA-MV	V-27			
Client ID: Earth Tech		Project ID	Stanton	LTRA Gro	oundwater sar	mpi	
Matrix: W		Project Num	4330				
Sample g/ml: 10.00		Lab Sample I	D: <u>43</u> 3	8008			
% Solids: not dec.		Analytical Ba	Batch 1706		Prep Batch 6021		
Instrument ID	Instrument ID		Date Collected: 1/15/04 Time:				
		Date Receive	d: <u>1/16</u>	/ <u>04 9:4</u> 0:0	00 AM		
Analytical Method: EPA 3	53.3	Date Analyze	d: <u>1/26</u>	/04			
Prep Method:		Date Prepared: 1/26/04					
CAS NO. C	OMPOUND	RESULT	Units	Q	LLR	MQL	DIL
Nitrate	Nitrate	3.21	mg/L		0.1	0.4	10
N/N	Nitrate/Nitrite	3.21	mg/L		0.1	0.4	10
Nitrite	Nitrite		mg/L	U	0.01	0.04	1

Lab Name: Analyt	ical Management Laboratories	Sample ID: _E	PA-MV	/-21D				
Client ID: Earth T	ech	Project ID	Stanton	LTRA Gro	oundwater sar	mpi		
Matrix: W		Project Num	4330					
Sample g/ml: 10.0	0	Lab Sample ID	: <u>433</u>	009				
% Solids: not dec.		Analytical Bate	h <u>170</u>	6	Prep Bat	Prep Batch 6021		
Instrument ID		Date Collected:		/04	Time:	Time: 11:00		
		Date Received	Date Received: 1/16/04 9:40:00 A		00 AM			
Analytical Method: EPA 353.3		Date Analyzed	1/26	04				
Prep Method:		Date Prepared	Date Prepared: 1/26/04					
CAS NO.	COMPOUND	RESULT L	Inits	Q	LLR	MQL	DIL	
Nitrate	Nitrate	5. 9 5 m	ıg/L		0.1	0.4	10	
N/N	Nitrate/Nitrite	5.95 m	g/L		0.1	0.4	10	
Nitrite	Nitrite	π	a/L	U	0.01	0.04	1	

Lab Name: Analyt	tical Management Laboratories	Sample ID:	ST-MW	-06			
Client ID: Earth T	Tech	Project ID	Stanton	LTRA Gro	undwater sar	npl	
Matrix; W		Project Num	4330				
Sample g/ml: _10.0	0	Lab Sample	ID: 43	3010			
% Solids: not dec.		Analytical Batch		06	Prep Batch 6021		
Instrument ID	Instrument ID		ed: <u>1/1</u> !	5/04	Time:	16:45	
Analytical Method: EPA 353.3		Date Receive	ed: 1/16	5/04 9:40:0	00 AM		
		Date Analyze	ed: 1/26/04				
Prep Method:		Date Prepare	ed: <u>1/26</u>	6/04			
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL	DIL
Nitrate	Nitrate	0.781	mg/L		0.1	0.4	10
N/N	Nitrate/Nitrite	0.781	mg/L		0.1	0.4	10
Nitrite	Nitrite		mg/L	U	0.01	0.04	1

Lab Name: Analyt	ical Management Laboratories	Sample ID:	ST-MW-	15					
Client ID: Earth T	'ech	Project ID	Stanton	TRA Gr	oundwater sa	mpl			
Matrix: W		Project Num	4330_						
Sample g/ml: 10.00	0	Lab Sample II	: 433	011					
% Solids: not dec.		Analytical Bate	h 170	6	Prep Ba	tch 6021			
Instrument ID		Date Collected	Date Collected: 1/16/04			Time: 9:15			
		Date Received	: 1/17/	04 4:00:	00 PM				
Analytical Method:	EPA 353.3	Date Analyzed	1/26/	04					
Prep Method:		Date Prepared	1/26/	04	_				
CAS NO.	COMPOUND	RESULT L	Inits	Q	LLR	MQL	DIL		
Nitrate	Nitrate	9 n	ıg/L	_	0.1	0.4	10		
N/N	Nitrate/Nitrite	9 п	g/L		0.1	0.4	10		
Nitrite	Nitrite	π	ig/L	U	0.01	0.04	1		

Lab Name: Analytic	al Management Laboratories	Sample ID	: ST-MW-	13				
Client ID: Earth Te	ch	Project ID	Stanton	LTRA Gro	oundwater san	npl		
Matrix: W		Project Nu	Project Num 4330					
Sample g/ml: 10.00		Lab Samp	le ID: <u>433</u>	0012				
% Solids: not dec.		Analytical	Batch <u>1706</u>		Prep Batch 6021			
Instrument ID	nstrument ID		cted: 1/16	/04	Time:	11:20		
-		Date Rece	Date Received: 1/17/04 4:0		00 PM			
Analytical Method: EPA 353.3		Date Analy	alyzed: 1/26/04					
Prep Method:		Date Prepared: 1/26/04						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL	DIL	
Nitrate	Nitrate	7.25	mg/L		1	4	100	
N/N	Nitrate/Nitrite	7.25	mg/L		1	4	100	
Nitrite	Nitrite		ma/L	U	0.01	0.04	1	

Lab Name: Analytic	cal Management Laboratories	Sample ID: E	PA-MW-26			
Client ID: Earth Te	ech	Project ID S	tanton LTRA G	roundwater sa	mpi	
Matrix: W		Project Num	4330			
Sample g/ml: 10.00		Lab Sample ID:	433013			
% Solids: not dec.		Analytical Batch	1706	Prep Ba	tch 6021	
Instrument ID		Date Collected:	1/16/04	Time:	9:00	
		Date Received:	1/17/04 4:00:	00 PM		
Analytical Method:	EPA 353.3	Date Analyzed:	1/26/04			
Prep Method:		Date Prepared:	1/26/04			
CAS NO.	COMPOUND	RESULT . UI	nits Q	LLR	MQL	DIL
Nitrate	Nitrate	3.46 mg	g/L	0.1	0.4	10
N/N	Nitrate/Nitrite	3.46 mg	g/L	0.1	0.4	10
Nitrite	Nitrite	mg	g/L U	0.01	0.04	1

Lab Name:	Analytical Management Laboratories	Sample ID: S1	T-MW-18						
Client ID:	Earth Tech	Project ID St	anton LT	RA Gr	oundwater sar	npl			
Matrix: W		Project Num 4	4330						
Sample g/ml:	10.00	Lab Sample ID:	43301	4					
% Solids: not	dec.	Analytical Batch	1706		Prep Bat	ch 6021			
Instrument ID	·	Date Collected: 1/16/04			Time:	Time: 12:20			
		Date Received:	1/17/04	4:00:	00 PM				
Analytical Me	ethod: EPA 353.3	Date Analyzed:	1/26/04	.					
Prep M	fethod:	Date Prepared:	1/26/04	3					
CAS NO	. COMPOUND	RESULT Un	nits	Q	LLR	MQL	DIL		
Nitrate	Nitrate	8.58 mg	γL		0.1	0.4	10		
N/N	Nitrate/Nitrite	8.58 mg	γL		0.1	0.4	10		
Nitrite	Nitrite	ma	v/I	H	0.01	0.04	4		

MEE QAQC Sample Data

Batch 1011

Quality Control Association Form

Lab Name Analytical Management Laboratories Fraction SPEC

Analytical	Prep	Date	Date		Original		
Batch	Batch	Analyzed	Prepared	Lab Sample ID	Sample	Sample Type	Project Number
1011	5872	1/21/03	1/21/03	15209		MB	
1011	5872	1/21/03	1/21/03	15210		LCS	
1011	5872	1/21/03	1/21/03	15211		LCSD	
1011	5872	1/21/03	1/21/03	15212	433001	MS	
1011	5872	1/21/03	1/21/03	15213	433001	MSD	
1011	5872	1/21/03	1/21/03	433001		SAMPLE	4330
1011	5872	1/21/03	1/21/03	433002		SAMPLE	4330
1011	5872	1/21/03	1/21/03	433003	* .	SAMPLE	4330
1011	5872	1/21/03	1/21/03	433004		SAMPLE	4330
1011	5872	1/21/03	1/21/03	433005		SAMPLE	4330
1011	5872	1/21/03	1/21/03	433006		SAMPLE	4330
1011	5872	1/21/03	1/21/03	433007		SAMPLE	4330
1011	5872	1/21/03	1/21/03	433008		SAMPLE	4330
1011	5872	1/21/03	1/21/03	433009	5	SAMPLE	4330
1011	5872	1/21/03	1/21/03	433010		SAMPLE	4330
1011	5872	1/21/03	1/21/03	433011		SAMPLE	4330
1011	5872	1/21/03	1/21/03	433012		SAMPLE	4330
1011	5872	1/21/03	1/21/03	433013		SAMPLE	4330
1011	5872	1/21/03	1/21/03	433014		SAMPLE	4330



Lab Name: Analytical Manag	ment Laboratories	Sample ID: MB for HBN 5872 [SPEC/1011]									
Client ID: QC ACCOUNT		Project ID									
Matrix: W		Project Num									
Sample g/ml: 44		Lab Sample ID:									
% Solids: not dec.		Date Collected:			ime:	_					
Instrument ID V5890B		Dilution Factor:	1								
Analytical Method: RSK-175		Date Analyzed:	1/21/03								
Prep Method: RSK175		Date Received:	1/21/03 10:	01:00 AM		_					
Analytical Batch: 1011											
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL					
74-84-0	Ethane		µg∕1	U	1.5	10					
74-85-1	Ethene		μ g/ Î	U	1.5	10					
74-82-8	Methane		ua/l	U	1.5	10					

Lab Name: Analytical Ma	anagment Laboratories	Sample ID: LCS for HBN 5872 [SPEC/1011]								
Client ID: QC ACCOUN	Τ	Project ID								
Matrix: W		Project Num	Project Num							
Sample g/ml: 44		Lab Sample ID:	15210							
% Solids: not dec.		Date Collected:			Time:					
Instrument ID V5890B		Dilution Factor:	1							
Analytical Method: RSK-175		Date Analyzed:	1/21/03							
Prep Method: RSK175		Date Received:	: 1/21/03 10:20:00 AM							
Analytical Batch: 1011_										
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL				
74-84-0	Ethane	44	μg/l		1.5	10				
74-85-1	Ethene	68	μg/l		1.5	10				
74-82-8	Methane	36	μg/l		1.5	10				

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name: Analytical Managme	nt Laboratories	Sample ID: LCSD for HBN 5872 [SPEC/1011]								
Client ID: QC ACCOUNT		Project ID								
Matrix: W		Project Num								
Sample g/ml: 44		Lab Sample ID:	15211							
% Solids: not dec.	Date Collected:			Time:						
Instrument ID V5890B		Dilution Factor:	1							
Analytical Method: RSK-175		Date Analyzed:	1/21/03							
Prep Method: RSK175		Date Received:	1/21/03 10:	24:00 AM	<u> </u>					
Analytical Batch: 1011										
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL				
74-84-0	Ethane	44	µg∕l		1.5	10				
74-85-1	Ethen e	69	μg/l		1.5	10				
74-82-8	Methane	37	uo/1		1.5	10				

Lab Name: Analytical Manag	ment Laboratories	Sample ID: EPA-MW-23(433001MS)								
Client ID: QC ACCOUNT		Project ID								
Matrix: W		Project Num								
Sample g/ml: 44		Lab Sample ID:								
% Solids: not dec.		Date Collected:	1/15/04		Time: 9:40					
Instrument ID V5890B	Dilution Factor:	1								
Analytical Method: RSK-175		Date Analyzed:	1/21/03							
Prep Method: RSK175	•	Date Received:	1/16/04 9:4	0:00 AM						
Analytical Batch: 1011										
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL				
74-84-0	Ethane	49	μg/l		1.5	10				
74-85-1	Ethene	76	μg/l		1.5	10				
74-82-8	Methane	43	ua/l		1.5	10				

Lab Name: Analytical Managm	ent Laboratories	Sample ID: <u>EPA-MW-23(433001MSD)</u>								
Client ID: QC ACCOUNT		Project ID								
Matrix: W		Project Num								
Sample g/mi: 44		Lab Sample ID: 15213								
% Solids: not dec.		Date Collected:	1/15/04		Time: 9:40					
Instrument ID V5890B		Dilution Factor:	1							
Analytical Method: RSK-175		Date Analyzed:	1/21/03							
Prep Method: RSK175		Date Received:	1/16/04 9:4	0:00 AN	<u>/ </u>					
Analytical Batch: 1011										
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL				
74-84-0	Ethane	48	μg/l		1.5	10				
74-85-1	Ethene	73	μg/l		1.5	10				
74-82-8	Methane	42	uafi		1.5	10				

Laboratory Control Sample (LCS) Summary

Lab Name: Analytical Managment Laboratories Analytical Batch 1011

Fraction SPEC Prep Batch 5872

Matrix W

Lab Sample ID for LCS: 15210

	SPIKE	4.00		QC	% REC QC. LIMITS		
Analyte	ADDED	LCS Amount	%REC	FLAG	LCL	UCL	
Ethane	48.8	44	90.2		50	150	
Ethene	59.3	6 8	115		50	150	
Methane	33	36	109		50	150	

Total Number of Analytes: 3

Number of Exceedences (ME) Allowed per DoD QSM: 0

Laboratory Control Sample Duplicate (LCSD) Summary

Lab Name: Analytical Managment Laboratories Analytical Batch 1011

Fraction SPEC Prep Batch 5872

Matrix W

Lab Sample ID for LCSD: 15211

Analyte	SPIKE ADDED	LCSD Amount	%REC	QC FLAG	%REC QC	C. LIMITS UCL	LCS/LCSD RPD
Ethane	48.8	44	90.2		50	150	0
Ethene	59.3	6 9	116		50	150	1.46
Methane	33	37	112		50	150	2.74

Total Number of Analytes: 3

Number of Exceedences (ME) Allowed per DoD QSM: 0

Matrix Spike (MS) Summary

Lab Name: Analytical Managment Laboratories

Analytical Batch 1011

Fraction SPEC

Prep Batch 5872

Matrix W

Original Sample ID:

433001

Lab Sample ID for MS:

15212

	Original	SPIKE	MS		QC	%REC QC. LIMITS		
COMPOUND	Amount	ADDED	ma Amount	%REC	FLAG	LCL	UCL	
Ethane	0	48.8	49	100		50	150	
Ethene	0	59.3	76	128		50	150	
Methane	0	33	43	130		50	150	

Total Number of Analytes: 3

Number of Exceedences (ME) Allowed per DoD QSM: 0

Matrix Spike Duplicate (MSD) Summary Sheet

Lab Name: Analytical Managment Laboratories

Analytical Batch 1011

Fraction SPEC

Prep Batch 5872

Matrix W

Original Sample ID: 433001

Lab Sample ID for MSD:

15213

	Original	SPIKE	MSD		QC	MS/MSD	RPD	%RE	C QC.	LIMITS	
COMPOUND	Amount	ADDED	Amount	%REC	FLAG	RPD	FLAG	LCI	. UCL	R PD	
Ethane	0	48.8	48	98.4		2.06		50	150	50	
Ethene	0	59.3	73	123		4.03		50	150	50	
Methane	0	33	42	127		2.35		50	150	50	

Total Number of Analytes: 3

Number of Exceedences (ME) Allowed per DoD QSM: 0

Anions QAQC Sample Data

Batch 1186

Quality Control Association Form

Lab Name Analytical Management Laboratories Fraction IC

Analytical	Prep	Date	Date		Original		
Batch	Batch	Analyzed	Prepared	Lab Sample ID	Sample	Sample Type	Project Number
1186	5835	1/16/04	1/16/04	15158		MB	
1186	5835	1/16/04	1/16/04	15159		LCS	
1186	5835	1/16/04	1/16/04	15160		LCSD	
1186	5835	1/16/04	1/16/04	15161	433001	MS	
1186	5835	1/16/04	1/16/04	15162	433001	MSD	
1186	5835	1/16/04	1/16/04	433001		SAMPLE	4330
1186	5835	1/16/04	1/16/04	433002		SAMPLE	4330
1186	5835	1/16/04	1/16/04	433003		SAMPLE	4330
1186	5835	1/16/04	1/16/04	433004		SAMPLE	4330
1186	5835	1/16/04	1/16/04	433005		SAMPLE	4330
1186	5835	1/16/04	1/16/04	433006		SAMPLE	4330
1186	5835	1/16/04	1/16/04	433007		SAMPLE	4330
1186	5835	1/16/04	1/16/04	433008		SAMPLE	4330
1186	5835	1/16/04	1/16/04	433009		SAMPLE	4330
1186	5835	1/16/04	1/16/04	433010		SAMPLE	4330
1186	5835	1/16/04	1/16/04	433101		SAMPLE	4331
1186	5835	1/16/04	1/16/04	433102		SAMPLE	4331

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mar	Sample ID: MB for HBN 5835 [IC/1186]									
Client ID:	C ACCOUNT	Project ID									
Matrix: W				Project Num							
Sample g/ml:	1			Lab Sample ID	: 15158	_				-	
% Solids: not o	lec. 100	Date Collected	:		Time:						
Instrument ID LD120 Injection Volume: 1 (mL)				Date Received: 1/16/04 3:00:00 PM Analytical Method: EPA 300.0							
											Date Analyzed
1/16/04	1186	5835	Chloride	,,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	mg/l	Ü	0.1	0.5	1		
1/16/04	1186	5835	Sulfate		ma/l	u	0.2	1	1		

Laboratory Control Sample (LCS) Summary

Lab Name: Analytical Managment Laboratories Analytical Batch 1186

Fraction IC Prep Batch 5835

Matrix W

Lab Sample ID for LCS: 15159

Analyte	SPIKE	LCS		QC	% REC QC	C. LIMITS
	ADDED	Amount	%REC	FLAG	LCL	UCL
Chloride	10.00	9.44	94.4		80	120
Sulfate	20.00	18.90	94.7		80	120

Total Number of Analytes: 2

Number of Exceedences (ME) Allowed per DoD QSM: 0

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mar	agment Labora	tories	Sample ID: L	.CS for HB	N 5835 [IC/1186]				
Client ID:	Project ID										
Matrix: W				Project Num							
Sample g/ml:	<u>1</u>			Lab Sample ID	: <u>15159</u>						
% Solids: not o	dec. 100			Date Collected	:		Time:				
Instrument ID LD120				Date Received: 1/16/04 3:00:00 PM							
Injection Volu	me: 1	_ (mL)		Analytical Meth	nod; <u>EP</u>	A 300.0					
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/16/04	1186	5835	Chloride	9.44	mg/l	-	0.1	0.5	1		
1/16/04	1186	5835	Sulfate	18 0	ma/l		0.2	1	1		

Laboratory Control Sample Duplicate (LCSD) Summary

Lab Name: Analytical Managment Laboratories Analytical Batch 1186

Fraction IC Prep Batch 5835

Matrix W

Lab Sample ID for LCSD: 15160

SPIKE LCSD %REC QC. LIMITS LCS/LCSD FLAG Analyte ADDED %REC RPD Amount LCL UCL Chloride 0.265 10.00 9.46 80 94.6 120 Sulfate 20.00 18.90 94.6 80 120 0.158

Total Number of Analytes: 2

Number of Exceedences (ME) Allowed per DoD QSM: 0

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mar	nagment Labor	atories	Sample ID: L	CSD for H	IBN 5835	[IC/1186]			
Client ID:	QC ACCOUNT			Project ID						
Matrix: W				Project Num						_
Sample g/ml:	1			Lab Sample ID	: 15160	r				
% Solids: not	dec. 100			Date Collected	: <u> </u>		Time:			_
Instrument ID	LD120			Date Received	1/16/04	3:00:00	PM			
Injection Volu	ıme: <u>1</u>	(mL)		Analytical Meth	od: EP	A 300.0				
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/16/04	1186	5835	Chloride	9.46	mg/l	•	0.1	0.5	1	
1/16/04	1186	5835	Sulfate	18 9	mo/l		0.2	1	1	

3 - Equivalent IC ANALYSIS DATA SHEET / Matrix Spike Summary Sheet

15161

MSD HSN:

15162

Lab Name: Analytical Managment Laboratories Analytical Batch 1186

Fraction IC Prep Batch 5835

433001 MS HSN:

Orig HSN:

MS % MSD% QC. LIMITS RPD REC# MSD % SPIKE MS SPIKE MSD REC# COMPOUND RPD FLAG ADDE Amount REC# FLAG FLAG ADDED Amount REC# Sulfate 48.292 40 89.4 103 40 89.2 102 0.132 20 Chloride 103.1 20 87.6 121 20 119 79.9 1.29 80 120 20

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mar	agment Labo	ratories	Sample ID: E	PA-MW-2	3(433001N	AS)			_
Client ID:	QC ACCOUNT			Project ID						
Matrix: W				Project Num						
Sample g/ml:	1			Lab Sample ID	15161					_
% Solids: not	dec.			Date Collected	1/15/04	<u> </u>	Time:	9:40		_
Instrument ID	LD120			Date Received	1/16/04	9:40:00 A	M			
Injection Volu	me: 1	(mL)		Analytical Meth	od: EP	A 300.0				
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/16/04	1186	5835	Chloride	121	mg/l	E	0.2	1 -	2	
1/16/04	1186	5835	Sulfate	8Q A	ma/l	F	0.4	2	2	

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mar	agment Lab	oratories	Sample ID: E	PA-MW-2	3(433001	MSD)			
Client ID:	QC ACCOUNT	·		Project ID						_
Matrix: W				Project Num						_
Sample g/ml:	1			Lab Sample ID	: 15162					_
% Solids: not	dec.			Date Collected:	1/15/04	<u> </u>	Time:	9:40		
Instrument ID	LD120			Date Received:	1/16/04	9:40:00	AM			_
Injection Volu	ime: <u>1</u>	_ (mL)		Analytical Meth	od: <u>EP</u>	A 300.0				
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/16/04	1186	5 835	Chloride	119	mg/l	E	0.2	1	2	
4/46/04	4406	5025	Culfata	PO 2	mad.	=	0.4	2	2	

Anions QAQC Sample Data

Batch 1189

Quality Control Association Form

Lab Name Analytical Management Laboratories Fraction IC

Analytical	Prep	Date	Date		Original		
Batch	Batch	Analyzed	Prepared	Lab Sample ID	Sample	Sample Type	Project Number
1189	5943	1/22/04	1/22/04	15339		MB	
1189	5943	1/22/04	1/22/04	15340		LCS	
1189	5943	1/22/04	1/22/04	15341		LCSD	
1189	5943	1/22/04	1/22/04	15342	433001	MS	
1189	5943	1/22/04	1/22/04	15343	433001	MSD	
1189	5943	1/22/04	1/22/04	433001		SAMPLE	4330
1189	5943	1/22/04	1/22/04	433002		SAMPLE	4330
1189	5943	1/22/04	1/22/04	433003		SAMPLE	4330
1189	5943	1/22/04	1/22/04	433004		SAMPLE	4330
1189	5943	1/22/04	1/22/04	433005		SAMPLE	4330
1189	5943	1/22/04	1/22/04	433006		SAMPLE	4330
1 189	5943	1/22/04	1/22/04	433007		SAMPLE	4330
1189	5943	1/22/04	1/22/04	433008		SAMPLE	4330
1189	5943	1/22/04	1/22/04	433009		SAMPLE	4330
1189	5943	1/22/04	1/22/04	433010		SAMPLE	4330
1189	5943	1/22/04	1/22/04	433011		SAMPLE	4330
1189	5943	1/22/04	1/22/04	433012		SAMPLE	4330
1189	5943	1/22/04	1/22/04	433013		SAMPLE	4330
1189	5943	1/22/04	1/22/04	433014		SAMPLE	4330

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Man	agment Lab	oratories	Sample ID: N	AB for HB	v 5943 [k	C/1189]				
Client ID:	QC ACCOUNT			Project ID _							
Matrix: W				Project Num		_					
Sample g/ml:	1			Lab Sample ID	: <u>15339</u>						
% Solids: not	dec. 100			Date Collected	:		Time:				
Instrument ID LD120				Date Received: 1/22/04 8:28:00 PM							
Injection Vol	ume: 1	_ (mL)		Analytical Meti	nod: <u>EP</u>	A 300.0					
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF		
1/22/04	1189	5943	Chloride		mg/l	Ú	0.1	0.5	1		
1/22/04	1189	5943	Sulfate		mg/l	U	0.2	1	1		

_ _ .

Laboratory Control Sample (LCS) Summary

Lab Name: Analytical Managment Laboratories Analytical Batch 1189

Fraction IC Prep Batch 5943

Matrix <u>W</u>

Lab Sample ID for LCS: 15340

	onur.	4.00		Q C	% REC Q	C. LIMITS
Analyte	SPIKE ADDED	LCS Amount	%REC	FLAG	LCL	ÜCL
Chloride	10.00	9.50	95		80	120
Sulfate	20.00	19.10	95.7		80	120

Total Number of Analytes: 2

Number of Exceedences (ME) Allowed per DoD QSM: 0

Actual Number of Marginal Excedences: 0

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mar	agment Labo	oratories	Sample ID: L	.CS for HB	N 5943 [IC/1189]		
Client ID:	C ACCOUNT			Project ID					
Matrix: W		-		Project Num					
Sample g/ml:	1			Lab Sample ID	: 15340				
% Solids: not d	lec. 100			Date Collected	:		Time:		
Instrument iD	LD120			Date Received	1/22/04	8:28:00	PM		
Injection Volum	me: <u>1</u>	(mL)		Analytical Meth	nod: <u>EP</u>	A 300.0			
Date Analyzed	Analytical Batch	Prep Balch	COMPOUND	RESULT	Units	o	LLR	MQL	DF
1/22/04	1189	5943	Chloride	9.5	mg/l	•	0.1	0.5	1
1/22/04	1189	5943	Sulfate	19.1	ma/l		0.2	1	1

Laboratory Control Sample Duplicate (LCSD) Summary

Lab Name: Analytical Managment Laboratories Analytical Batch 1189

 Fraction
 IC
 Prep Batch
 5943

 Matrix
 <u>W</u>

Lab Sample ID for LCSD: 15341

QC FLAG %REC QC. LIMITS LCS/LCSD LCSD SPIKE Analyte RPD ADDED Amount %REC LCL UCL 0.273 Chloride 10.00 9.52 95.2 80 120 20.00 19.10 95.6 80 120 0.105 Sulfate

Total Number of Analytes: 2

Number of Exceedences (ME) Allowed per DoD QSM: 0

Actual Number of Marginal Excedences: 0

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mar	agment Labo	ratories	Sample ID: L	CSD for H	BN 5943	3 [IC/1189]			_
Client ID:	C ACCOUNT			Project ID						
Matrix: W				Project Num						
Sample g/ml:	1		_	Lab Sample ID	15341					
% Solids: not o	iec. 100			Date Collected	l:		Time:			
Instrument ID	LD120			Date Received	l: 1/22/04	8:28:00	PM			
Injection Volum	me: <u>1</u>	(mL)		Analytical Metl	hod: <u>EP</u>	A 300.0	_			
Date Analyzed	Analytical Batch	Prep Batch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/22/04	1189	5943	Chloride	9.52	mg/l	•	0.1	0.5	1	
1/22/04	1189	5943	Sulfate	19.1	ma/l		0.2	1	1	

3 - Equivalent IC ANALYSIS DATA SHEET / Matrix Spike Summary Sheet

Lab Name: Analytical Managment Laboratories Analytical Batch 1189

Fraction IC

Prep Batch 5943

<u>C</u>

Orig HSN: 433001 MS HSN: 15342 MSD HSN: 15343

				***	MS % REC#	60WE	****	MSD %	MSD%		RPD	Q	C. LIM	ITS
COMPOUND	Original Amount	SPIKE ADDE	MS Amount	MS % REC#		SPIKE ADDED	MSD Amount		FLAG	RPD	FLAG	LCL	UCL	RPD
Sulfate	47.423	400	433	96.3		400	434	96.6		0.249		80	120	20
Chloride	90.639	200	284	96.6		200	284	96.5		0.0722	<u> </u>	80	120	20

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mar	nagment Lab	oratories	Sample ID:	EPA-MW-2	3(43300	1MS)			
Client ID:	QC ACCOUNT	·		Project ID						
Matrix: W				Project Num			<u> </u>			
Sample g/ml:	1		_	Lab Sample ID): 15342					•
% Solids: not o	dec.			Date Collected	l: 1/15/04		Time:	9:40		_
Instrument ID	LD120		_	Date Received	1/16/04	9:40:00	AM			
Injection Volu	me: 1	(mL)		Analytical Meth	nod: <u>EP</u>	A 300.0				
Date Analyzed	Analytical Batch	Prep Balch	COMPOUND	RESULT	Units	Q	LLR	MQL	DF	
1/22/04	1189	5943	Chloride	284	mg/l	•	2	10	20	
1/22/04	1180	50/3	Culfoto	422	mal			20	20	

1 - Equivalent Ion Chromatography ANALYSIS DATA SHEET

Lab Name:	Analytical Mar	nagment Lab	oratories	Sample ID: E	PA-MW-2	3 <u>(</u> 43300	1MSD)			
Client ID:	QC ACCOUNT			Project ID						
Matrix: W				Project Num						
Sample g/ml:	1			Lab Sample ID	: 15343					
% Solids: not o	dec.			Date Collected	: 1/15/04		Time:	9:40		_
Instrument ID	LD120			Date Received	: 1/16/04	9:40:00	AM			
Injection Volu	me: 1	(mL)		Analytical Meth	nod: EP	A 300.0			-	
Date Analyzed	Analyticai Batch	Prep Batch	COMPOUND	RESULT	Units	a	LLR	MQL	DF	
1/22/04	1189	5943	Chloride	284	mg/l	_	2	10	20	

434

mg/l

Sulfate

1/22/04

1189

5943

20

20

Nitrates QAQC Sample Data

Batch 1706

Quality Control Association Form

Lab Name Analytical Management Laboratories Fraction WCGE

Analytical	Prep	Date	Date		Original		
Batch	Batch	Analyzed	Prepared	Lab Sample ID	Sample	Sample Type	Project Number
1706	6021	1/26/04	1/26/04	15445		MB	
1706	6021	1/26/04	1/26/04	15446		LCS	N.
1706	6021	1/26/04	1/26/04	15447		LCSD	
1706	6021	1/26/04	1/26/04	15448	433001	MS	
1706	6021	1/26/04	1/26/04	15449	433001	MSD	•
1706	6021	1/26/04	1/26/04	433001		SAMPLE	4330
1706	6021	1/26/04	1/26/04	433002		SAMPLE	4330
1706	6021	1/26/04	1/26/04	433003		SAMPLE	4330
1706	6021	1/26/04	1/26/04	433004		SAMPLE	4330
1706	6021	1/26/04	1/26/04	433005		SAMPLE	4330
1706	6021	1/26/04	1/26/04	433006		SAMPLE	4330
1706	6021	1/26/04	1/26/04	433007		SAMPLE	4330
1706	6021	1/26/04	1/26/04	433008		SAMPLE	4330
1706	6021	1/26/04	1/26/04	433009		SAMPLE	4330
1706	6021	1/26/04	1/26/04	433010		SAMPLE	4330
1706	6021	1/26/04	1/26/04	433011		SAMPLE	4330
1706	6021	1/26/04	1/26/04	433012		SAMPLE	4330
1706	6021	1/26/04	1/26/04	433013		SAMPLE	4330
1706	6021	1/26/04	1/26/04	433014		SAMPLE	4330

Batch Reviewed by Date Reviewed 1/28/04 Date Printed ednesday, January 28, 2004

1 - Equivalent INORGANICS ANALYSIS DATA SHEET

Lab Name: A	nalytical Management Laboratories	Sample ID:	ID: MB for HBN 6021 [WCGE/1706]						
Client ID: QC	ACCOUNT	Project ID							
Matrix: W		Project Num							
Sample g/ml: _	10.00	Lab Sample	ID: 154	145					
% Solids: not de	c. 100.0	Analytical Ba	atch 170	06	Prep Ba	tch 6021			
Instrument ID _		Date Collect	ed:		Time:				
		Date Receive	ed: <u>1/26</u>	6/04					
Analytical Metho	od: _EPA 353.3	Date Analyze	ed: 1/26	6/04					
Prep Meth	nod:	Date Prepare	ed: _1/26	6/04					
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL	DIL		
Nitrate	Nitrate		mg/L	U	0.01	0.04	1		
N/N	Nitrate/Nitrite		mg/L	U	0.01	0.04	1		
Nitrite	Nitrite		ma/L	U	0.01	0.04	í		

7 - Equivalent INORGANIC ANALYSIS DATA SHEET / Laboratory Control Sample Summary Sheet

Lab Name: Analytical Managment Laboratories

Analytical Batch 1706

Fraction WCGE

Prep Batch 6021

Units

LCS HSN:

15446

LCSD HSN:

15447

	SPIKE	LCS	LCS %	LCS % REC#	SPIKE	LCS	LCS %	LCS %	R P D	Q	C. LIM	ITS
COMPOUND	ADDED			FLAG		Amount		REC# RPD	FLAG	LCL	UCL	RPD
Nitrate	0.4	0.435	109		0.4	0.428	107	1.62		80	120	20
Nitrate/Nitrite	0.4	0.435	109		0.4	0.428	107	1.62		80	120	20
Nitrite	0.5	0.533	107		0.5	0.531	106	0.376		80	120	20

1 - Equivalent INORGANICS ANALYSIS DATA SHEET

Lab Name: Ar	nalytical Management Laboratories	Sample ID:	LCS for I	HBN 602	[WCGE/1706	<u>[</u>	
Client ID: QC	ACCOUNT	Project ID					
Matrix: W		Project Num					
Sample g/ml:	10.00	Lab Sample	ID: <u>154</u>	46			
% Solids: not de	c. 100.0	Analytical Ba	tch 170	6	Prep Bate	ch <u>6021</u>	
Instrument ID		Date Collecte	ed:		Time:		
		Date Receive	ed: <u>1/26</u>	/04			
Analytical Metho	od: EPA 353.3	Date Analyze	ed: 1/26	/04			
Prep Meth	nod:	Date Prepare	ed: <u>1/26</u>	04			
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL	DIL
Nitrate	Nitrate	0.435	mg/L		0.01	0.04	1
N/N	Nitrate/Nitrite	0.435	mg/L		0.01	0.04	1 .
Nitrite	Nitrite	0.533	mg/L		0.01	0.04	1

1 - Equivalent INORGANICS ANALYSIS DATA SHEET

Lab Name: Analytical Management Laboratories		Sample ID: LCSD for HBN 6021 [WCGE/1706]								
Client ID: QC ACC	COUNT	Project ID								
Matrix: W		Project Num								
Sample g/ml: 10.00) 	Lab Sample	ID: <u>154</u>	147						
% Solids: not dec.	100.0	Analytical Ba	itch 170)6	Prep Batch	6021				
Instrument ID		Date Collect	ed:	<u> </u>	Time: _					
		Date Receive	ed: <u>1/26</u>	/04			,			
Analytical Method:	EPA 353.3	Date Analyze	ed: <u>1/26</u>	/04						
Prep Method:		Date Prepare	ed: 1/26	/04						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL	DIL			
Nitrale	Nitrate	0.428	mg/L		0.01	0.04	1			
N/N	Nitrate/Nitrite	0.428	mg/L		0.01	0.04	1			
Nitrite	Nitrite	0.531	mg/L		0.01	0.04	1			



5 - Equivalent INORGANIC ANALYSIS DATA SHEET / Matrix Spike Summary Sheet

Lab Name: Analytical Managment Laboratories

Analytical Batch 1706

Fraction WCGE

Prep Batch 6021

Units

Orig HSN:

433001 MS HSN:

15448

MSD HSN:

15449

	Orinteed	SPIKE	MS	MS %	MS % REC#	SPIKE	Men	MSD %	MSD%		RPD	Q	C. LIM	ITS
COMPOUND			ms Amount	•			Amount		FLAG	RPD	FLAG	LCL	UCL	RPD
Nitrate	5.272	4	9.85	114		4	9.79	113		0.57		75	125	25
Nitrate/Nitrite	5.272	4	9.85	114		4	9.79	113		0.57		75	125	25
Nitrite	0	0.5	0.564	113		0.5	0.545	109		3.43		75	125	25

1 - Equivalent INORGANICS ANALYSIS DATA SHEET

Lab Name: Analytical Management Laboratories Client ID: QC ACCOUNT Matrix: W Sample g/ml: 10.00 % Solids: not dec.		Sample ID: EPA-MW-23(433001MS)								
		Project ID	Project ID							
		Project Num								
		Lab Sample	Lab Sample ID: 15448							
		Analytical Ba	itch _170	6	Prep Batch 6021					
Analytical Method: EPA 353.3 Prep Method:		Date Collecte	Date Collected: 1/15/04		Time: 9:40					
		Date Receive	ed: 1/16	/04 9:40:0	00 AM					
		Date Analyze	d: 1/26	/04_						
		Date Prepare	d: <u>1/26</u>	/04						
CAS NO.	COMPOUND	RESULT	Units	Q	LLR	MQL	DIL			
Nitrate	Nitrate	9.85	mg/L		0.1	0.4	10			
N/N	Nitrate/Nitrite	9.85	mg/L		0.1	0.4	10			
Nitrile	Nitrite	0.564	mg/L		0.01	0.04	1			



1 - Equivakent INORGANICS ANALYSIS DATA SHEET

Lab Name:	Analytical Management Laboratories	Sample ID	EPA-M	PA-MW-23(433001MSD)					
Client ID: QC ACCOUNT Matrix: W Sample g/ml: 10.00 % Solids: not dec.		Project ID Project Num							
		Analytical Batch 1706		Prep Batch 6021					
		Instrument ID		Date Collected: 1/15/04		Time: 9:40			
		Date Rece	Date Received: 1/16/04 9:40:00						
Analytical Method: EPA 353.3		Date Analyzed:		6/04					
Prep Method:		Date Prepared: 1/26/04							
CAS NO). COMPOUND	RESULT	Units	Q	LLR	MQL	DIL		
Nitrate	Nitrate	9.79	mg/L		0.1	0.4	10		
N/N	Nitrate/Nitrite	9.79	mg/L		0.1	0.4	10		
alia_ia_	Alianta	. 0.545			0.04	0.04	4		