



TestAmerica Laboratories, Inc.

## ANALYTICAL REPORT

Schreiber, Yonley & Associates

Lot #: F0I030547

Doug Abeln

Schreiber, Yonley & Associates  
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Ellisville, MO 63021

TESTAMERICA LABORATORIES, INC.

  
Kay Clay  
Project Manager

September 14, 2010

Case Narrative  
LOT NUMBER: F0I030547

This report contains the analytical results for the sample received under chain of custody by TestAmerica St. Louis on September 3, 2010. This sample is associated with your Schreiber, Yonley & Associates project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted below.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

**Observations/Nonconformances**

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

**Volatiles Method: 8260B**

Batch 0252251

The Acetone and 1,1,2,2-tetrachloroethane LCS recoveries are outside the upper QC limit, indicating a potential positive bias for the analyte. The analyte 1,1,2,2-tetrachloroethane was a non-detect and the results will be reported from this run. The sample was re-prepared and re-analyzed within holding time for acetone and the sample result was less than the reporting limit but the LCS/LCSD recoveries still recovered high. Since the sample result was less than the reporting limit the sample data is reported.

**Affected Sample:**

F0I030547 (1): RADCHEM 1

**METHODS SUMMARY**

FOI030547

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B

**References:**

MCAWW "Methods for Chemical Analysis of Water and Wastes",  
EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical  
Methods", Third Edition, November 1986 and its updates.

**SAMPLE SUMMARY**

F0I030547

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
L6JMF	001	RADCHEM 1	09/03/10	09:30

**NOTE (S) :**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

## Cash in Advance / Prepaid Sales

Client Sample ID: RADCHEM 1

## GC/MS Volatiles

Lot-Sample #...: F0I030547-001    Work Order #...: L6JMF1AG    Matrix.....: SOLID  
 Date Sampled...: 09/03/10 09:30    Date Received...: 09/03/10  
 Prep Date.....: 09/09/10    Analysis Date...: 09/09/10  
 Prep Batch #...: 0252251    Analysis Time...: 15:09  
 Dilution Factor: 1  
 % Moisture.....: 16    Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Vinyl chloride	ND	6.0	ug/kg
Bromomethane	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
1,1-Dichloroethene	ND	6.0	ug/kg
Methylene chloride	ND	6.0	ug/kg
Carbon disulfide	ND	6.0	ug/kg
1,1-Dichloroethane	ND	6.0	ug/kg
2-Butanone	ND	24	ug/kg
1,2-Dichloroethene (total)	ND	12	ug/kg
Chloroform	ND	6.0	ug/kg
1,1,1-Trichloroethane	ND	6.0	ug/kg
Carbon tetrachloride	ND	6.0	ug/kg
1,2-Dichloroethane	ND	6.0	ug/kg
Benzene	ND	6.0	ug/kg
Trichloroethene	ND	6.0	ug/kg
1,2-Dichloropropane	ND	6.0	ug/kg
Bromodichloromethane	ND	6.0	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
cis-1,3-Dichloropropene	ND	6.0	ug/kg
Toluene	ND	6.0	ug/kg
trans-1,3-Dichloropropene	ND	6.0	ug/kg
1,1,2-Trichloroethane	ND	6.0	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	ND	6.0	ug/kg
Dibromochloromethane	ND	6.0	ug/kg
Chlorobenzene	ND	6.0	ug/kg
Ethylbenzene	ND	6.0	ug/kg
Xylenes (total)	ND	12	ug/kg
Styrene	ND	6.0	ug/kg
Bromoform	ND	6.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg
1,2-Dichlorobenzene	ND	6.0	ug/kg
1,3-Dichlorobenzene	ND	6.0	ug/kg
1,4-Dichlorobenzene	ND	6.0	ug/kg

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## Cash in Advance / Prepaid Sales

Client Sample ID: RADCHEM 1

## GC/MS Volatiles

Lot-Sample #...: F0I030547-001 Work Order #...: L6JMF1AG Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Toluene-d8	106	(72 - 136)
Dibromofluoromethane	97	(76 - 130)
1,2-Dichloroethane-d4	106	(73 - 148)
4-Bromofluorobenzene	128	(59 - 150)

**NOTE(S) :**

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Results and reporting limits have been adjusted for dry weight.

Cash in Advance / Prepaid Sales

Client Sample ID: RADCHEM 1

GC/MS Volatiles

Lot-Sample #...: F0I030547-001    Work Order #...: L6JMF2AG    Matrix.....: SOLID  
 Date Sampled...: 09/03/10 09:30    Date Received...: 09/03/10  
 Prep Date.....: 09/13/10    Analysis Date...: 09/13/10  
 Prep Batch #...: 0256287    Analysis Time...: 08:47  
 Dilution Factor: 1  
 % Moisture.....: 16    Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Acetone	8.5 J,B	24	ug/kg
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
Toluene-d8	98	(72 - 136)	
Dibromofluoromethane	92	(76 - 130)	
1,2-Dichloroethane-d4	98	(73 - 148)	
4-Bromofluorobenzene	104	(59 - 150)	

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Cash in Advance / Prepaid Sales

Client Sample ID: RADCHEM 1

General Chemistry

Lot-Sample #...: F0I030547-001    Work Order #...: L6JMF    Matrix.....: SOLID  
 Date Sampled...: 09/03/10 09:30    Date Received...: 09/03/10  
 % Moisture.....: 16

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	16.4	0.10	%	MCAWW 160.3 MOD	09/08-09/09/10	0251134
		Dilution Factor: 1		Analysis Time..: 00:00		



## METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #...: F0I030547  
 MB Lot-Sample #: F0I090000-251

Work Order #...: L6P3G1AA

Matrix.....: SOLID

Prep Date.....: 09/09/10

Analysis Time...: 09:31

Analysis Date...: 09/09/10

Prep Batch #...: 0252251

Dilution Factor: 1

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	20	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	10	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	20	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	10	ug/kg	SW846 8260B
<b>Styrene</b>	<b>3.3 J</b>	<b>5.0</b>	<b>ug/kg</b>	<b>SW846 8260B</b>
Bromoform	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Toluene-d8	99	(72 - 136)
Dibromofluoromethane	89	(76 - 130)

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## METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #...: F0I030547

Work Order #...: L6P3G1AA

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
1,2-Dichloroethane-d4	99	(73 - 148)		
4-Bromofluorobenzene	112	(59 - 150)		

**NOTE (S) :**

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Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F0I030547      Work Order #...: L6WJT1AA      Matrix.....: SOLID  
 MB Lot-Sample #: F0I130000-287  
 Prep Date.....: 09/13/10      Analysis Time...: 08:15  
 Analysis Date...: 09/13/10      Prep Batch #...: 0256287  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Acetone	9.2 J	20	ug/kg	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Toluene-d8	100	(72 - 136)
Dibromofluoromethane	100	(76 - 130)
1,2-Dichloroethane-d4	108	(73 - 148)
4-Bromofluorobenzene	109	(59 - 150)

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #...: F0I030547      Work Order #...: L6P3G1AC      Matrix.....: SOLID  
 LCS Lot-Sample#: F0I090000-251  
 Prep Date.....: 09/09/10      Analysis Date...: 09/09/10  
 Prep Batch #...: 0252251      Analysis Time...: 07:53  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Chloromethane	117	(71 - 135)	SW846 8260B
Vinyl chloride	94	(68 - 140)	SW846 8260B
Bromomethane	93	(60 - 140)	SW846 8260B
Chloroethane	101	(66 - 140)	SW846 8260B
1,1-Dichloroethene	98	(72 - 127)	SW846 8260B
Methylene chloride	101	(72 - 135)	SW846 8260B
Carbon disulfide	93	(68 - 140)	SW846 8260B
1,1-Dichloroethane	106	(83 - 118)	SW846 8260B
2-Butanone	111	(71 - 132)	SW846 8260B
1,2-Dichloroethene (total)	105	(85 - 116)	SW846 8260B
Chloroform	105	(86 - 115)	SW846 8260B
1,1,1-Trichloroethane	104	(85 - 118)	SW846 8260B
Carbon tetrachloride	102	(84 - 120)	SW846 8260B
1,2-Dichloroethane	112	(83 - 118)	SW846 8260B
Benzene	103	(85 - 115)	SW846 8260B
Trichloroethene	100	(83 - 115)	SW846 8260B
1,2-Dichloropropane	108	(84 - 116)	SW846 8260B
Bromodichloromethane	102	(85 - 115)	SW846 8260B
4-Methyl-2-pentanone	118	(68 - 136)	SW846 8260B
cis-1,3-Dichloropropene	109	(83 - 121)	SW846 8260B
Toluene	99	(85 - 116)	SW846 8260B
trans-1,3-Dichloropropene	112	(82 - 123)	SW846 8260B
1,1,2-Trichloroethane	103	(85 - 115)	SW846 8260B
2-Hexanone	120	(69 - 135)	SW846 8260B
Tetrachloroethene	83	(64 - 132)	SW846 8260B
Dibromochloromethane	101	(85 - 115)	SW846 8260B
Chlorobenzene	99	(85 - 115)	SW846 8260B
Ethylbenzene	101	(84 - 120)	SW846 8260B
Styrene	93	(83 - 124)	SW846 8260B
Bromoform	110	(81 - 119)	SW846 8260B
1,1,2,2-Tetrachloroethane	120 a	(82 - 116)	SW846 8260B
1,2-Dichlorobenzene	104	(85 - 115)	SW846 8260B
1,3-Dichlorobenzene	100	(85 - 115)	SW846 8260B

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## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #...: F0I030547      Work Order #...: L6P3G1AC      Matrix.....: SOLID  
 LCS Lot-Sample#: F0I090000-251

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
<b>1,4-Dichlorobenzene</b>	<b>99</b>	<b>(85 - 115)</b>	<b>SW846 8260B</b>

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Toluene-d8	95	(85 - 116)
Dibromofluoromethane	103	(85 - 115)
1,2-Dichloroethane-d4	106	(85 - 116)
4-Bromofluorobenzene	114	(83 - 121)

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F0I030547      Work Order #...: L6WJT1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: F0I130000-287      L6WJT1AD-LCSD  
 Prep Date.....: 09/13/10      Analysis Date...: 09/13/10  
 Prep Batch #...: 0256287      Analysis Time...: 07:02  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Acetone	<b>147 a</b>	<b>(57 - 140)</b>			<b>SW846 8260B</b>
	<b>154 a</b>	<b>(57 - 140)</b>	<b>5.0</b>	<b>(0-20)</b>	<b>SW846 8260B</b>

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Toluene-d8	98	(85 - 116)
	102	(85 - 116)
Dibromofluoromethane	100	(85 - 115)
	97	(85 - 115)
1,2-Dichloroethane-d4	102	(85 - 116)
	102	(85 - 116)
4-Bromofluorobenzene	111	(83 - 121)
	112	(83 - 121)

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #...: F0I030547      Work Order #...: L6JMF1AH-MS      Matrix.....: SOLID  
 MS Lot-Sample #: F0I030547-001      L6JMF1AJ-MSD  
 Date Sampled...: 09/03/10 09:30      Date Received...: 09/03/10  
 Prep Date.....: 09/09/10      Analysis Date...: 09/09/10  
 Prep Batch #...: 0252251      Analysis Time...: 15:33  
 Dilution Factor: 1      % Moisture.....: 16

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
Chloromethane	118	(61 - 150)			SW846 8260B
	107	(61 - 150)	9.3	(0-30)	SW846 8260B
Vinyl chloride	95	(65 - 150)			SW846 8260B
	90	(65 - 150)	6.0	(0-30)	SW846 8260B
Bromomethane	88	(45 - 150)			SW846 8260B
	78	(45 - 150)	13	(0-30)	SW846 8260B
Chloroethane	103	(55 - 150)			SW846 8260B
	87	(55 - 150)	17	(0-30)	SW846 8260B
1,1-Dichloroethene	92	(68 - 128)			SW846 8260B
	93	(68 - 128)	0.63	(0-30)	SW846 8260B
Methylene chloride	102	(49 - 150)			SW846 8260B
	100	(49 - 150)	2.5	(0-30)	SW846 8260B
Carbon disulfide	88	(63 - 130)			SW846 8260B
	86	(63 - 130)	1.4	(0-30)	SW846 8260B
1,1-Dichloroethane	105	(78 - 133)			SW846 8260B
	103	(78 - 133)	1.5	(0-30)	SW846 8260B
2-Butanone	106	(32 - 150)			SW846 8260B
	108	(32 - 150)	2.3	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	102	(73 - 128)			SW846 8260B
	101	(73 - 128)	0.10	(0-30)	SW846 8260B
Chloroform	102	(78 - 131)			SW846 8260B
	103	(78 - 131)	0.55	(0-30)	SW846 8260B
1,1,1-Trichloroethane	103	(73 - 138)			SW846 8260B
	101	(73 - 138)	2.1	(0-30)	SW846 8260B
Carbon tetrachloride	99	(66 - 142)			SW846 8260B
	100	(66 - 142)	1.1	(0-30)	SW846 8260B
1,2-Dichloroethane	107	(71 - 149)			SW846 8260B
	110	(71 - 149)	3.2	(0-30)	SW846 8260B
Benzene	102	(76 - 126)			SW846 8260B
	105	(76 - 126)	2.6	(0-30)	SW846 8260B
Trichloroethene	105	(65 - 143)			SW846 8260B
	112	(65 - 143)	6.8	(0-30)	SW846 8260B
1,2-Dichloropropane	109	(79 - 129)			SW846 8260B
	112	(79 - 129)	2.4	(0-30)	SW846 8260B
Bromodichloromethane	100	(76 - 135)			SW846 8260B
	104	(76 - 135)	3.6	(0-30)	SW846 8260B
4-Methyl-2-pentanone	113	(58 - 150)			SW846 8260B
	117	(58 - 150)	3.2	(0-30)	SW846 8260B

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## MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #...: F0I030547      Work Order #...: L6JMF1AH-MS      Matrix.....: SOLID  
 MS Lot-Sample #: F0I030547-001      L6JMF1AJ-MSD

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
cis-1,3-Dichloropropene	106	(74 - 138)			SW846 8260B
	114	(74 - 138)	7.2	(0-30)	SW846 8260B
Toluene	108	(62 - 142)			SW846 8260B
	111	(62 - 142)	2.4	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	113	(75 - 148)			SW846 8260B
	116	(75 - 148)	2.4	(0-30)	SW846 8260B
1,1,2-Trichloroethane	108	(63 - 150)			SW846 8260B
	110	(63 - 150)	2.2	(0-30)	SW846 8260B
2-Hexanone	120	(38 - 150)			SW846 8260B
	121	(38 - 150)	0.72	(0-30)	SW846 8260B
Tetrachloroethene	85	(38 - 150)			SW846 8260B
	89	(38 - 150)	4.0	(0-30)	SW846 8260B
Dibromochloromethane	101	(73 - 138)			SW846 8260B
	104	(73 - 138)	3.1	(0-30)	SW846 8260B
Chlorobenzene	96	(74 - 123)			SW846 8260B
	101	(74 - 123)	4.5	(0-30)	SW846 8260B
Ethylbenzene	103	(70 - 130)			SW846 8260B
	107	(70 - 130)	4.4	(0-30)	SW846 8260B
Styrene	88	(67 - 133)			SW846 8260B
	94	(67 - 133)	6.4	(0-30)	SW846 8260B
Bromoform	115	(58 - 150)			SW846 8260B
	122	(58 - 150)	6.4	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	123	(44 - 150)			SW846 8260B
	121	(44 - 150)	1.2	(0-30)	SW846 8260B
1,2-Dichlorobenzene	100	(65 - 133)			SW846 8260B
	107	(65 - 133)	6.9	(0-30)	SW846 8260B
1,3-Dichlorobenzene	97	(69 - 125)			SW846 8260B
	105	(69 - 125)	8.8	(0-30)	SW846 8260B
1,4-Dichlorobenzene	95	(68 - 126)			SW846 8260B
	103	(68 - 126)	8.4	(0-30)	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Toluene-d8	105	(72 - 136)
	105	(72 - 136)
Dibromofluoromethane	98	(76 - 130)
	98	(76 - 130)
1,2-Dichloroethane-d4	105	(73 - 148)
	103	(73 - 148)
4-Bromofluorobenzene	122	(59 - 150)
	126	(59 - 150)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F0I030547      Work Order #...: L6JMF1AH-MS      Matrix.....: SOLID  
 MS Lot-Sample #: F0I030547-001      L6JMF1AJ-MSD

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>

**NOTE (S) :**

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Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters  
 Results and reporting limits have been adjusted for dry weight.





Lot #(s): F0I030547  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**CONDITION UPON RECEIPT FORM**

Client: Schreiber, Vonley

Quote No: 86974

COC/RFA No: 171900

369

Initiated By: [Signature] Date: 9.3.10 Time: 1050

**Shipping Information**

Shipper: FedEx UPS DHL Courier Client Other: \_\_\_\_\_ Multiple Packages: Y N

Shipping # (s):*		Sample Temperature (s):**	
1. _____	6. _____	1. <u>15</u>	6. _____
2. _____	7. _____	2. _____	7. _____
3. _____	8. _____	3. _____	8. _____
4. _____	9. _____	4. _____	9. _____
5. _____	10. _____	5. _____	10. _____

\*Numbered shipping lines correspond to Numbered Sample Temp lines

\*\*Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1. Y <u>N</u>	Are there custody seals present on the cooler?	8. Y <u>N</u>	Are there custody seals present on bottles?
2. Y N <u>N/A</u>	Do custody seals on cooler appear to be tampered with?	9. Y N <u>N/A</u>	Do custody seals on bottles appear to be tampered with?
3. <u>Y</u> N	Were contents of cooler frisked after opening, but before unpacking?	10. Y N <u>N/A</u>	Was sample received with proper pH? (if not, make note below)
4. <u>Y</u> N	Sample received with Chain of Custody?	11. <u>Y</u> N	Sample received in proper containers?
5. <u>Y</u> N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12. Y N <u>N/A</u>	Headspace in VOA or TOX liquid samples? (if Yes, note sample ID's below)
6. Y <u>N</u>	Was sample received broken?	13. Y N <u>N/A</u>	Was Internal COC/Workshare received?
7. <u>Y</u> N	Is sample volume sufficient for analysis?	14. Y N <u>N/A</u>	Was pH taken by original TestAmerica lab?

<sup>1</sup> For DOB-AL (Pantox, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes:

Sample just collected

Corrective Action:

Client Contact Name: \_\_\_\_\_

Sample(s) processed "as is"

Sample(s) on hold until: \_\_\_\_\_

Project Management Review: Jayna Pohl

Informed by: \_\_\_\_\_

If released, notify: \_\_\_\_\_

Date: 9-7-10

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

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