Memorandum

SFUND RECORDS CTR
2258026

Management

7272 E. Indian School Rd.
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Scottsdale, AZ 85251
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ERM.

To: Monika O'Sullivan, Remedial Project Manager
United State Environmental Protection Agency, Region 9

From: David Abranovic, P.E., Project Manager, ERM
Robert Livermore, Principal-in-Charge, ERM

Date: 10 January 2012

Subject: Draft – 3rd Quarter New Groundwater Wells Sampling Event - September 2011
OU3 Superfund Site
Phoenix, Arizona

This memorandum presents the final data transmittal report for the September 2011 new groundwater monitoring wells quarterly sampling event conducted by ERM on behalf of the OU3 Working Group. This memorandum is provided per the requirements under Section XIV of the Administrative Order of Consent and Section 4.4 of the Statement of Work.

This is the fourth of four groundwater sampling events scheduled under the Statement of Work. The data presented in this, and prior memorandums, show that monitoring wells OU3-10S, OU3-16M, OU3-16S, OU3-17S, OU3-19M, OU3-20M, and OU3-20S have proven effective in monitoring groundwater within the OU3 site. ERM recommends that these monitoring wells be incorporated into future semiannual groundwater sampling events as part of the OU3 groundwater monitoring network.

The following summarizes the September 2011 quarterly sampling event:

- Groundwater sampling occurred from 19 to 20 September 2011 for all wells except OU3-10S, which was sampled on 13 September 2011 due to access issues.
- The City of Phoenix sanitary sewer discharge permit was obtained on 17 August 2011.

- All wells were gauged on 6 September 2011, except for OU3-10S, which was gauged on 13 September 2011 due to access issues.

The presented data were collected following the protocol specified in the *Final Field Sampling Plan* (ERM 2010). Well locations are provided on Figure 1 in Attachment A. A summary of the September 2011 sampling event data is provided in Tables 1 and 2 of Attachment A. The laboratory analytical data are presented as Attachment B. Data validation, performed by LDC, found that all data are useable for decision-making purposes. These data are presented in Attachment C.

If you have any questions regarding the project status or data, please contact me at 480-998-2401.

Sincerely,

Robert Livermore
OU3 Group Program Manager

RSL/pjs/96498

Attachment A – Figure and Data Tables

Attachment B – Laboratory Analytical Data (Level III Data on CD)

Attachment C – Data Validation Report

cc: Janet Rosati, United States Environmental Protection Agency
Troy J. Kennedy, Honeywell
Judy Heywood, Arizona Public Service Company
Travis Barnum, Arizona Department of Environmental Quality
Claudia Garcia, US Army Corps of Engineers
Sue Kraemer, Shaw Environmental, Inc.
David Abranovic, ERM

Draft

Attachment A
Figure and Data Tables

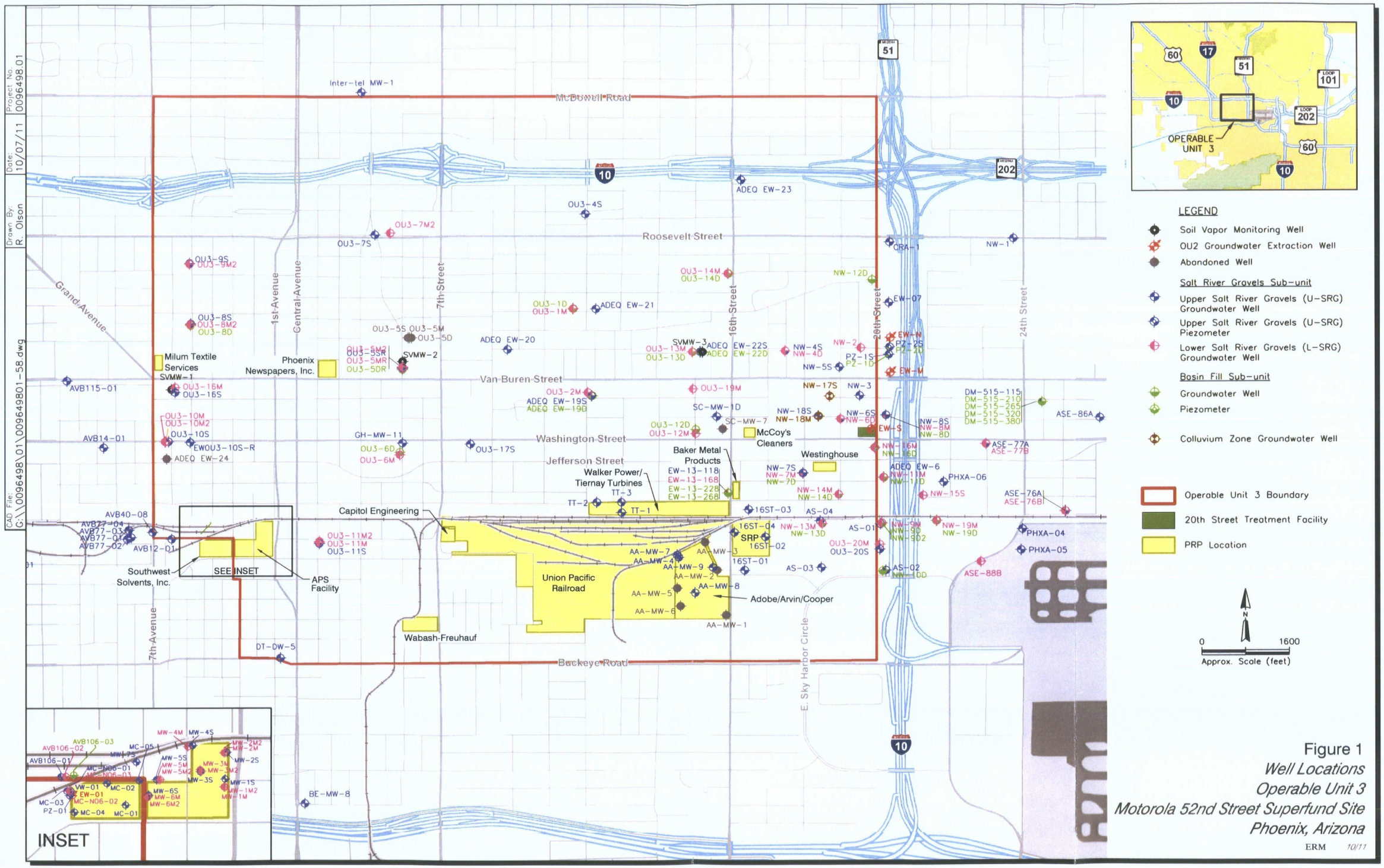

Figure 1
Well Locations
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona

ERM 10/11

Table 1

September 2011 Sampling Event
New Well Analytical Data Summary
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona

Well ID	Former Hydrostratigraphic Zone	Revised Hydrostratigraphic Zone	Sample Date	Screened Interval	TCE	PCE	*cis*-1,2-DCE	1,1-DCA	1,1-DCE	1,4-Dioxane
Units					ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
ADEQ AWQS					5	5	70	NA	7	NA
OU3-10S	Shallow	Upper SRG	9/13/2011	75-125	**6.2**	< 0.50	1.6	1.5	1.5	1.2
OU3-16S	Shallow	Upper SRG	9/19/2011	75-125	**39**	1.3	8.9	4.9	5.5	2.0
OU3-16M	Intermediate	Lower SRG	9/19/2011	160-180	**120**	4.4	20	8.4	**13**	3.1
OU3-17S	Shallow	Upper SRG	9/19/2011	70-120	2.9	< 0.50	< 0.50	0.52	< 0.50	< 1.1
OU3-17S-Q1	Shallow	Upper SRG	9/19/2011	70-120	2.8	< 0.50	< 0.50	0.57	< 0.50	< 1.1
OU3-19M	Intermediate	Lower SRG	9/19/2011	150-170	**66**	2.8	15	7.9	**12**	2.8
OU3-20S	Shallow	Upper SRG	9/20/2011	65-115	1.6	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
OU3-20M	Intermediate	Lower SRG	9/20/2011	160-180	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.1

Notes

1,1-DCA = 1,1-Dichloroethane
1,1-DCE = 1,1-Dichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
ADEQ = Arizona Department of Environmental Quality
AWQS = Arizona Water Quality Standards
BOLD = greater than or equal to the ADEQ AWQS

EPA = United States Environmental Protection Agency
ug/L = micrograms per liter
NA = not applicable or no standard
PCE = Tetrachloroethene
TCE = Trichloroethene
Q1 = sample is field duplicate

Upper SRG = Upper Salt River Gravels
Lower SRG = Lower Salt River Gravels

Table 2

September 2011 Sampling Event
New Well Groundwater Elevations Summary
Operable Unit 3
Motorola 52nd Street Superfund Site
Phoenix, Arizona

Well ID	Former Hydrostratigraphic Zone	Revised Hydrostratigraphic Zone	Top of Casing Elevation	Well Diameter	Screened Interval	Gauging Date	Depth-To-Water	Groundwater Elevation
Units			ft amsl	inches	ft bgs		ft btoc	ft amsl
OU3-10S	Shallow	U-SRG	1,081.90	4	75-125	9/13/2011	98.58	983.32
OU3-16M	Intermediate	L-SRG	1,082.25	4	160-180	9/6/2011	97.76	984.49
OU3-16S	Shallow	U-SRG	1,082.19	4	75-125	9/6/2011	97.60	984.59
OU3-17S	Shallow	U-SRG	1,082.22	4	70-120	9/6/2011	84.60	997.62
OU3-19M	Intermediate	L-SRG	1,091.21	4	150-170	9/6/2011	85.71	1,005.50
OU3-20M	Intermediate	L-SRG	1,100.12	4	160-180	9/6/2011	88.35	1,011.77
OU3-20S	Shallow	U-SRG	1,100.20	4	65-115	9/6/2011	88.24	1,011.96

Notes

amsl = above mean sea level
ft = feet
bgs = below ground surface
btoc = below top of casing
U-SRG = Upper Salt River Gravels
L-SRG = Lower Salt River Gravels

Attachment B
Laboratory Analytical Data
(Level III Data on CD)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498.013

Sampled: 09/13/11
Received: 09/13/11
Revised: 11/21/11 15:28

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI0738-01	OU3-10S-S-091311	Water

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
S10-Surrogate recovery was above acceptance limits.
N1 = Laboratory Control Sample Duplicate recovered low and outside of client acceptance limits for Bromodichloromethane, cis-1,3-Dichloropropene and trans-1,3-Dichloropropene. Recovery was within the laboratory acceptance limits . All associated samples are non-detect for this compound and therefore should not be impacted.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: Revised report to reflect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.013
Report Number: PUI0738

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0738-01 (OU3-10S-S-091311 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0653	10	ND	1	9/19/2011	9/19/2011	
Benzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Bromodichloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Bromoform	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Bromomethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Butanone (MEK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
sec-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
tert-Butylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon disulfide	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Carbon tetrachloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Chloroethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Chloroform	EPA 8260B	11I0653	0.50	**2.4**	1	9/19/2011	9/19/2011	
Chloromethane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
2-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
4-Chlorotoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromochloromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dibromomethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Dichlorodifluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethane	EPA 8260B	11I0653	0.50	**1.5**	1	9/19/2011	9/19/2011	
1,2-Dichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1-Dichloroethene	EPA 8260B	11I0653	0.50	**1.5**	1	9/19/2011	9/19/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	**1.6**	1	9/19/2011	9/19/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3-Dichloropropane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
2,2-Dichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
trans-1,3-Dichloropropene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	N1
Ethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Hexachlorobutadiene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.013
Report Number: PUI0738

Sampled: 09/13/11
Received: 09/13/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0738-01 (OU3-10S-S-091311 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Iodomethane	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Isopropylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
p-Isopropyltoluene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Methylene Chloride	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Naphthalene	EPA 8260B	11I0653	2.5	ND	1	9/19/2011	9/19/2011	
n-Propylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Styrene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Tetrachloroethene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Toluene	EPA 8260B	11I0653	0.50	**0.82**	1	9/19/2011	9/19/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Trichloroethene	EPA 8260B	11I0653	0.50	**6.2**	1	9/19/2011	9/19/2011	
Trichlorofluoromethane	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Vinyl Acetate	EPA 8260B	11I0653	1.0	ND	1	9/19/2011	9/19/2011	
Vinyl chloride	EPA 8260B	11I0653	0.50	ND	1	9/19/2011	9/19/2011	
Xylenes, Total	EPA 8260B	11I0653	1.5	ND	1	9/19/2011	9/19/2011	
Freon 113	EPA 8260B	11I0653	2.0	ND	1	9/19/2011	9/19/2011	
Surrogate: Dibromofluoromethane (80-130%)				*95 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*89 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.013
Report Number: PUI0738

Sampled: 09/13/11
Received: 09/13/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI0738-01 (OU3-10S-S-091311 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0590	1.0	1.2	1	9/16/2011	9/18/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*74 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*105 %*				

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Attention: Jason Hilker

Project ID: 0096498.013
Report Number: PUI0738

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Blank Analyzed: 09/19/2011 (11I0653-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

TestAmerica Phoenix

Kylie Emily
Project Manager

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Attention: Jason Hilker

Project ID: 0096498.013
Report Number: PUI0738

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Blank Analyzed: 09/19/2011 (11I0653-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*23.8*		*ug/l*	*25.0*		*95*	*80-130*			
Surrogate: Toluene-d8	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.8*		*ug/l*	*25.0*		*91*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING
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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.013
Report Number: PUI0738

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Analyzed: 09/19/2011 (11I0653-BS1)										
Acetone	20.5	10	ug/l	25.0		82	10-150			
Benzene	24.8	0.50	ug/l	25.0		99	80-120			
Bromobenzene	25.3	0.50	ug/l	25.0		101	80-120			
Bromochloromethane	23.2	0.50	ug/l	25.0		93	80-125			
Bromodichloromethane	21.0	0.50	ug/l	25.0		84	80-120			
Bromoform	23.4	1.0	ug/l	25.0		94	75-130			
Bromomethane	23.6	1.0	ug/l	25.0		95	55-150			
2-Butanone (MEK)	18.8	2.5	ug/l	25.0		75	40-150			
n-Butylbenzene	23.9	0.50	ug/l	25.0		96	80-130			
sec-Butylbenzene	25.3	0.50	ug/l	25.0		101	80-125			
tert-Butylbenzene	24.8	0.50	ug/l	25.0		99	80-120			
Carbon disulfide	23.3	0.50	ug/l	25.0		93	70-140			
Carbon tetrachloride	24.9	0.50	ug/l	25.0		100	75-130			
Chlorobenzene	25.7	0.50	ug/l	25.0		103	80-120			
Chloroethane	22.0	1.0	ug/l	25.0		88	70-130			
Chloroform	22.2	0.50	ug/l	25.0		89	75-120			
Chloromethane	19.4	1.0	ug/l	25.0		77	60-140			
2-Chlorotoluene	23.7	0.50	ug/l	25.0		95	80-120			
4-Chlorotoluene	23.4	0.50	ug/l	25.0		94	80-120			
Dibromochloromethane	22.5	0.50	ug/l	25.0		90	80-120			
1,2-Dibromo-3-chloropropane	21.8	2.5	ug/l	25.0		87	50-150			
1,2-Dibromoethane (EDB)	23.0	0.50	ug/l	25.0		92	80-120			
Dibromomethane	23.8	0.50	ug/l	25.0		95	75-120			
1,2-Dichlorobenzene	25.1	0.50	ug/l	25.0		100	80-120			
1,3-Dichlorobenzene	26.0	0.50	ug/l	25.0		104	80-120			
1,4-Dichlorobenzene	25.5	0.50	ug/l	25.0		102	80-120			
Dichlorodifluoromethane	19.3	0.50	ug/l	25.0		77	60-150			
1,1-Dichloroethane	22.4	0.50	ug/l	25.0		89	70-125			
1,2-Dichloroethane	20.6	0.50	ug/l	25.0		83	75-130			
1,1-Dichloroethene	23.1	0.50	ug/l	25.0		92	75-125			
cis-1,2-Dichloroethene	21.8	0.50	ug/l	25.0		87	80-120			
trans-1,2-Dichloroethene	22.4	0.50	ug/l	25.0		90	80-120			
1,2-Dichloropropane	22.6	0.50	ug/l	25.0		91	80-120			
1,3-Dichloropropane	22.2	0.50	ug/l	25.0		89	80-120			
2,2-Dichloropropane	21.0	1.0	ug/l	25.0		84	75-130			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.013
Report Number: PUI0738

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Analyzed: 09/19/2011 (11I0653-BS1)										
1,1-Dichloropropene	22.6	0.50	ug/l	25.0		90	75-120			
cis-1,3-Dichloropropene	21.9	0.50	ug/l	25.0		88	80-120			
trans-1,3-Dichloropropene	20.5	0.50	ug/l	25.0		82	80-125			
Ethylbenzene	24.8	0.50	ug/l	25.0		99	80-120			
Hexachlorobutadiene	25.1	1.0	ug/l	25.0		100	40-150			
2-Hexanone	18.7	2.5	ug/l	25.0		75	20-150			
Iodomethane	30.7	2.5	ug/l	25.0		123	80-130			
Isopropylbenzene	26.4	0.50	ug/l	25.0		105	80-130			
p-Isopropyltoluene	24.8	0.50	ug/l	25.0		99	80-130			
Methylene Chloride	21.2	1.0	ug/l	25.0		85	70-120			
4-Methyl-2-pentanone (MIBK)	18.0	2.5	ug/l	25.0		72	60-135			
Methyl-tert-butyl Ether (MTBE)	19.0	0.50	ug/l	25.0		76	70-130			
Naphthalene	21.9	2.5	ug/l	25.0		88	40-150			
n-Propylbenzene	25.0	0.50	ug/l	25.0		100	75-130			
Styrene	22.4	0.50	ug/l	25.0		90	80-120			
1,1,1,2-Tetrachloroethane	24.7	0.50	ug/l	25.0		99	75-125			
1,1,2,2-Tetrachloroethane	22.4	0.50	ug/l	25.0		90	80-120			
Tetrachloroethene	27.2	0.50	ug/l	25.0		109	70-130			
Toluene	24.4	0.50	ug/l	25.0		97	80-120			
1,2,3-Trichlorobenzene	24.5	1.0	ug/l	25.0		98	55-150			
1,2,4-Trichlorobenzene	24.8	1.0	ug/l	25.0		99	50-150			
1,1,1-Trichloroethane	23.6	0.50	ug/l	25.0		95	75-125			
1,1,2-Trichloroethane	23.0	0.50	ug/l	25.0		92	80-120			
Trichloroethene	24.9	0.50	ug/l	25.0		99	80-120			
Trichlorofluoromethane	22.0	0.50	ug/l	25.0		88	70-150			
1,2,3-Trichloropropane	21.8	1.0	ug/l	25.0		87	70-130			
1,2,4-Trimethylbenzene	24.6	0.50	ug/l	25.0		98	80-120			
1,3,5-Trimethylbenzene	25.0	0.50	ug/l	25.0		100	80-130			
Vinyl Acetate	19.7	1.0	ug/l	25.0		79	40-150			
Vinyl chloride	22.6	0.50	ug/l	25.0		91	70-130			
Xylenes, Total	49.8	1.5	ug/l	50.0		100	60-140			
Freon 113	23.3	2.0	ug/l	25.0		93	60-140			
Surrogate: Dibromofluoromethane	*23.5*		*ug/l*	*25.0*		*94*	*80-130*			
Surrogate: Toluene-d8	*24.6*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.4*		*ug/l*	*25.0*		*97*	*80-125*			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.013
Report Number: PUI0738

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Dup Analyzed: 09/19/2011 (11I0653-BSD1)										
Acetone	20.4	10	ug/l	25.0		82	10-150	0.4	35	
Benzene	24.0	0.50	ug/l	25.0		96	80-120	3	15	
Bromobenzene	23.6	0.50	ug/l	25.0		95	80-120	7	15	
Bromochloromethane	22.4	0.50	ug/l	25.0		90	80-125	3	15	
Bromodichloromethane	19.7	0.50	ug/l	25.0		79	80-120	6	15	*N1*
Bromoform	21.7	1.0	ug/l	25.0		87	75-130	8	20	
Bromomethane	23.4	1.0	ug/l	25.0		94	55-150	0.9	20	
2-Butanone (MEK)	19.6	2.5	ug/l	25.0		79	40-150	4	35	
n-Butylbenzene	22.9	0.50	ug/l	25.0		92	80-130	5	15	
sec-Butylbenzene	23.8	0.50	ug/l	25.0		95	80-125	6	15	
tert-Butylbenzene	23.2	0.50	ug/l	25.0		93	80-120	7	15	
Carbon disulfide	22.7	0.50	ug/l	25.0		91	70-140	3	15	
Carbon tetrachloride	23.9	0.50	ug/l	25.0		95	75-130	4	20	
Chlorobenzene	25.2	0.50	ug/l	25.0		101	80-120	2	15	
Chloroethane	20.2	1.0	ug/l	25.0		81	70-130	8	15	
Chloroform	21.0	0.50	ug/l	25.0		84	75-120	6	15	
Chloromethane	18.4	1.0	ug/l	25.0		74	60-140	5	20	
2-Chlorotoluene	22.2	0.50	ug/l	25.0		89	80-120	6	15	
4-Chlorotoluene	22.2	0.50	ug/l	25.0		89	80-120	5	15	
Dibromochloromethane	21.6	0.50	ug/l	25.0		86	80-120	4	15	
1,2-Dibromo-3-chloropropane	19.8	2.5	ug/l	25.0		79	50-150	10	35	
1,2-Dibromoethane (EDB)	22.6	0.50	ug/l	25.0		90	80-120	2	15	
Dibromomethane	22.1	0.50	ug/l	25.0		88	75-120	8	15	
1,2-Dichlorobenzene	23.4	0.50	ug/l	25.0		94	80-120	7	15	
1,3-Dichlorobenzene	24.0	0.50	ug/l	25.0		96	80-120	8	15	
1,4-Dichlorobenzene	23.7	0.50	ug/l	25.0		95	80-120	7	15	
Dichlorodifluoromethane	18.6	0.50	ug/l	25.0		74	60-150	4	30	
1,1-Dichloroethane	22.1	0.50	ug/l	25.0		88	70-125	1	15	
1,2-Dichloroethane	19.5	0.50	ug/l	25.0		78	75-130	6	15	
1,1-Dichloroethene	23.4	0.50	ug/l	25.0		94	75-125	1	20	
cis-1,2-Dichloroethene	20.4	0.50	ug/l	25.0		82	80-120	6	15	
trans-1,2-Dichloroethene	22.3	0.50	ug/l	25.0		89	80-120	0.4	15	
1,2-Dichloropropane	21.6	0.50	ug/l	25.0		86	80-120	5	15	
1,3-Dichloropropane	20.0	0.50	ug/l	25.0		80	80-120	11	15	
2,2-Dichloropropane	20.6	1.0	ug/l	25.0		83	75-130	2	15	

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Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.013
Report Number: PUI0738

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
LCS Dup Analyzed: 09/19/2011 (11I0653-BSD1)										
1,1-Dichloropropene	22.2	0.50	ug/l	25.0		89	75-120	2	15	
cis-1,3-Dichloropropene	19.8	0.50	ug/l	25.0		79	80-120	10	15	*NI*
trans-1,3-Dichloropropene	18.8	0.50	ug/l	25.0		75	80-125	9	15	*NI*
Ethylbenzene	24.5	0.50	ug/l	25.0		98	80-120	1	15	
Hexachlorobutadiene	23.5	1.0	ug/l	25.0		94	40-150	6	35	
2-Hexanone	17.8	2.5	ug/l	25.0		71	20-150	5	35	
Iodomethane	31.4	2.5	ug/l	25.0		126	80-130	2	10	
Isopropylbenzene	24.8	0.50	ug/l	25.0		99	80-130	6	15	
p-Isopropyltoluene	23.5	0.50	ug/l	25.0		94	80-130	5	15	
Methylene Chloride	22.8	1.0	ug/l	25.0		91	70-120	7	15	
4-Methyl-2-pentanone (MIBK)	16.6	2.5	ug/l	25.0		66	60-135	8	25	
Methyl-tert-butyl Ether (MTBE)	18.2	0.50	ug/l	25.0		73	70-130	4	20	
Naphthalene	20.9	2.5	ug/l	25.0		84	40-150	5	30	
n-Propylbenzene	23.6	0.50	ug/l	25.0		95	75-130	6	15	
Styrene	21.4	0.50	ug/l	25.0		86	80-120	4	15	
1,1,1,2-Tetrachloroethane	24.0	0.50	ug/l	25.0		96	75-125	3	15	
1,1,2,2-Tetrachloroethane	20.8	0.50	ug/l	25.0		83	80-120	8	20	
Tetrachloroethene	22.2	0.50	ug/l	25.0		89	70-130	20	20	
Toluene	23.3	0.50	ug/l	25.0		93	80-120	4	15	
1,2,3-Trichlorobenzene	23.5	1.0	ug/l	25.0		94	55-150	4	35	
1,2,4-Trichlorobenzene	22.9	1.0	ug/l	25.0		91	50-150	8	30	
1,1,1-Trichloroethane	22.2	0.50	ug/l	25.0		89	75-125	6	15	
1,1,2-Trichloroethane	20.5	0.50	ug/l	25.0		82	80-120	11	15	
Trichloroethene	23.3	0.50	ug/l	25.0		93	80-120	6	15	
Trichlorofluoromethane	21.9	0.50	ug/l	25.0		88	70-150	0.6	25	
1,2,3-Trichloropropane	19.6	1.0	ug/l	25.0		79	70-130	10	20	
1,2,4-Trimethylbenzene	23.1	0.50	ug/l	25.0		93	80-120	6	15	
1,3,5-Trimethylbenzene	23.4	0.50	ug/l	25.0		93	80-130	7	15	
Vinyl Acetate	18.2	1.0	ug/l	25.0		73	40-150	8	25	
Vinyl chloride	21.0	0.50	ug/l	25.0		84	70-130	8	20	
Xylenes, Total	48.5	1.5	ug/l	50.0		97	60-140	3	15	
Freon 113	23.9	2.0	ug/l	25.0		96	60-140	3	15	
Surrogate: Dibromofluoromethane	*23.1*		*ug/l*	*25.0*		*93*	*80-130*			
Surrogate: Toluene-d8	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*		*ug/l*	*25.0*		*97*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.013
Report Number: PUI0738

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Analyzed: 09/19/2011 (11I0653-MS1)					**Source: PUI0739-01**					
Acetone	13.3	10	ug/l	25.0	ND	53	10-150			
Benzene	23.8	0.50	ug/l	25.0	ND	95	70-125			
Bromobenzene	23.9	0.50	ug/l	25.0	ND	96	75-120			
Bromochloromethane	21.1	0.50	ug/l	25.0	ND	85	75-130			
Bromodichloromethane	19.6	0.50	ug/l	25.0	ND	79	75-125			
Bromoform	21.9	1.0	ug/l	25.0	ND	88	65-125			
Bromomethane	24.1	1.0	ug/l	25.0	ND	96	45-150			
2-Butanone (MEK)	16.9	2.5	ug/l	25.0	ND	68	15-150			
n-Butylbenzene	22.5	0.50	ug/l	25.0	ND	90	70-130			
sec-Butylbenzene	23.8	0.50	ug/l	25.0	ND	95	70-125			
tert-Butylbenzene	23.5	0.50	ug/l	25.0	ND	94	70-125			
Carbon disulfide	23.1	0.50	ug/l	25.0	ND	92	65-145			
Carbon tetrachloride	24.4	0.50	ug/l	25.0	ND	97	65-135			
Chlorobenzene	24.8	0.50	ug/l	25.0	ND	99	75-120			
Chloroethane	20.6	1.0	ug/l	25.0	ND	82	65-140			
Chloroform	22.8	0.50	ug/l	25.0	1.18	86	70-130			
Chloromethane	18.0	1.0	ug/l	25.0	ND	72	55-145			
2-Chlorotoluene	23.0	0.50	ug/l	25.0	ND	92	70-125			
4-Chlorotoluene	22.8	0.50	ug/l	25.0	ND	91	70-125			
Dibromochloromethane	20.6	0.50	ug/l	25.0	ND	82	70-130			
1,2-Dibromo-3-chloropropane	19.6	2.5	ug/l	25.0	ND	79	50-150			
1,2-Dibromoethane (EDB)	21.2	0.50	ug/l	25.0	ND	85	70-125			
Dibromomethane	20.3	0.50	ug/l	25.0	ND	81	70-120			
1,2-Dichlorobenzene	23.0	0.50	ug/l	25.0	ND	92	75-120			
1,3-Dichlorobenzene	23.8	0.50	ug/l	25.0	ND	95	75-120			
1,4-Dichlorobenzene	23.3	0.50	ug/l	25.0	ND	93	70-125			
Dichlorodifluoromethane	19.0	0.50	ug/l	25.0	ND	76	60-150			
1,1-Dichloroethane	26.6	0.50	ug/l	25.0	5.41	85	70-130			
1,2-Dichloroethane	19.2	0.50	ug/l	25.0	ND	77	65-140			
1,1-Dichloroethene	32.3	0.50	ug/l	25.0	9.41	91	70-130			
cis-1,2-Dichloroethene	27.4	0.50	ug/l	25.0	6.93	82	70-125			
trans-1,2-Dichloroethene	22.3	0.50	ug/l	25.0	ND	89	75-125			
1,2-Dichloropropane	21.4	0.50	ug/l	25.0	ND	86	75-125			
1,3-Dichloropropane	21.4	0.50	ug/l	25.0	ND	86	70-120			
2,2-Dichloropropane	20.8	1.0	ug/l	25.0	ND	83	65-140			

TestAmerica Phoenix

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THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.013
Report Number: PUI0738

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Analyzed: 09/19/2011 (11I0653-MS1)					**Source: PUI0739-01**					
1,1-Dichloropropene	21.8	0.50	ug/l	25.0	ND	87	65-130			
cis-1,3-Dichloropropene	20.1	0.50	ug/l	25.0	ND	80	75-130			
trans-1,3-Dichloropropene	19.2	0.50	ug/l	25.0	ND	77	70-130			
Ethylbenzene	24.1	0.50	ug/l	25.0	ND	96	70-125			
Hexachlorobutadiene	17.6	1.0	ug/l	25.0	ND	70	40-150			
2-Hexanone	14.8	2.5	ug/l	25.0	ND	59	20-150			
Iodomethane	32.0	2.5	ug/l	25.0	ND	128	60-150			
Isopropylbenzene	25.4	0.50	ug/l	25.0	ND	102	75-130			
p-Isopropyltoluene	23.4	0.50	ug/l	25.0	ND	93	70-130			
Methylene Chloride	23.1	1.0	ug/l	25.0	ND	92	65-130			
4-Methyl-2-pentanone (MIBK)	15.8	2.5	ug/l	25.0	ND	63	55-135			
Methyl-tert-butyl Ether (MTBE)	16.8	0.50	ug/l	25.0	ND	67	65-140			
Naphthalene	17.3	2.5	ug/l	25.0	ND	69	40-150			
n-Propylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-130			
Styrene	19.9	0.50	ug/l	25.0	ND	80	55-135			
1,1,1,2-Tetrachloroethane	23.4	0.50	ug/l	25.0	ND	93	70-125			
1,1,2,2-Tetrachloroethane	20.4	0.50	ug/l	25.0	ND	82	70-125			
Tetrachloroethene	28.2	0.50	ug/l	25.0	1.94	105	65-130			
Toluene	24.8	0.50	ug/l	25.0	0.370	98	70-125			
1,2,3-Trichlorobenzene	19.9	1.0	ug/l	25.0	ND	80	50-150			
1,2,4-Trichlorobenzene	20.8	1.0	ug/l	25.0	ND	83	50-150			
1,1,1-Trichloroethane	22.7	0.50	ug/l	25.0	ND	91	70-130			
1,1,2-Trichloroethane	20.6	0.50	ug/l	25.0	ND	83	75-125			
Trichloroethene	56.9	0.50	ug/l	25.0	35.3	87	70-125			
Trichlorofluoromethane	22.4	0.50	ug/l	25.0	0.160	89	65-150			
1,2,3-Trichloropropane	18.9	1.0	ug/l	25.0	ND	76	70-130			
1,2,4-Trimethylbenzene	23.2	0.50	ug/l	25.0	ND	93	70-125			
1,3,5-Trimethylbenzene	23.6	0.50	ug/l	25.0	ND	95	75-130			
Vinyl Acetate	16.8	1.0	ug/l	25.0	ND	67	40-150			
Vinyl chloride	21.4	0.50	ug/l	25.0	ND	86	60-140			
Xylenes, Total	47.2	1.5	ug/l	50.0	ND	94	75-120			
Freon 113	24.6	2.0	ug/l	25.0	ND	98	65-140			
Surrogate: Dibromofluoromethane	*23.3*		*ug/l*	*25.0*		*93*	*80-130*			
Surrogate: Toluene-d8	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.1*		*ug/l*	*25.0*		*96*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.013
Report Number: PUI0738

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Dup Analyzed: 09/19/2011 (11I0653-MSD1)					**Source: PUI0739-01**					
Acetone	19.0	10	ug/l	25.0	ND	76	10-150	35	35	
Benzene	24.8	0.50	ug/l	25.0	ND	99	70-125	4	25	
Bromobenzene	24.8	0.50	ug/l	25.0	ND	99	75-120	4	20	
Bromochloromethane	23.6	0.50	ug/l	25.0	ND	94	75-130	11	20	
Bromodichloromethane	20.7	0.50	ug/l	25.0	ND	83	75-125	5	20	
Bromoform	22.0	1.0	ug/l	25.0	ND	88	65-125	0.6	25	
Bromomethane	24.8	1.0	ug/l	25.0	ND	99	45-150	3	35	
2-Butanone (MEK)	18.6	2.5	ug/l	25.0	ND	74	15-150	10	30	
n-Butylbenzene	22.8	0.50	ug/l	25.0	ND	91	70-130	1	30	
sec-Butylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-125	2	30	
tert-Butylbenzene	24.0	0.50	ug/l	25.0	ND	96	70-125	2	25	
Carbon disulfide	25.0	0.50	ug/l	25.0	ND	100	65-145	8	25	
Carbon tetrachloride	24.0	0.50	ug/l	25.0	ND	96	65-135	2	25	
Chlorobenzene	26.2	0.50	ug/l	25.0	ND	105	75-120	6	20	
Chloroethane	21.6	1.0	ug/l	25.0	ND	86	65-140	5	25	
Chloroform	24.3	0.50	ug/l	25.0	1.18	92	70-130	6	20	
Chloromethane	18.6	1.0	ug/l	25.0	ND	74	55-145	3	35	
2-Chlorotoluene	22.9	0.50	ug/l	25.0	ND	92	70-125	0.3	25	
4-Chlorotoluene	23.0	0.50	ug/l	25.0	ND	92	70-125	0.5	25	
Dibromochloromethane	22.2	0.50	ug/l	25.0	ND	89	70-130	8	20	
1,2-Dibromo-3-chloropropane	19.2	2.5	ug/l	25.0	ND	77	50-150	2	30	
1,2-Dibromoethane (EDB)	22.8	0.50	ug/l	25.0	ND	91	70-125	7	20	
Dibromomethane	23.0	0.50	ug/l	25.0	ND	92	70-120	12	20	
1,2-Dichlorobenzene	24.6	0.50	ug/l	25.0	ND	98	75-120	7	20	
1,3-Dichlorobenzene	25.2	0.50	ug/l	25.0	ND	101	75-120	6	25	
1,4-Dichlorobenzene	24.9	0.50	ug/l	25.0	ND	100	70-125	7	20	
Dichlorodifluoromethane	16.8	0.50	ug/l	25.0	ND	67	60-150	13	30	
1,1-Dichloroethane	28.1	0.50	ug/l	25.0	5.41	91	70-130	5	20	
1,2-Dichloroethane	20.5	0.50	ug/l	25.0	ND	82	65-140	7	20	
1,1-Dichloroethene	31.9	0.50	ug/l	25.0	9.41	90	70-130	1	25	
cis-1,2-Dichloroethene	29.0	0.50	ug/l	25.0	6.93	88	70-125	6	20	
trans-1,2-Dichloroethene	22.9	0.50	ug/l	25.0	ND	92	75-125	3	25	
1,2-Dichloropropane	22.8	0.50	ug/l	25.0	ND	91	75-125	6	20	
1,3-Dichloropropane	23.4	0.50	ug/l	25.0	ND	93	70-120	9	20	
2,2-Dichloropropane	21.4	1.0	ug/l	25.0	ND	85	65-140	3	25	

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Kylie Emily
Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.013
Report Number: PUI0738

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0653 Extracted: 09/19/11										
Matrix Spike Dup Analyzed: 09/19/2011 (11I0653-MSD1)					**Source: PUI0739-01**					
1,1-Dichloropropene	22.5	0.50	ug/l	25.0	ND	90	65-130	3	25	
cis-1,3-Dichloropropene	22.1	0.50	ug/l	25.0	ND	89	75-130	10	20	
trans-1,3-Dichloropropene	20.7	0.50	ug/l	25.0	ND	83	70-130	7	20	
Ethylbenzene	25.4	0.50	ug/l	25.0	ND	101	70-125	5	25	
Hexachlorobutadiene	25.3	1.0	ug/l	25.0	ND	101	40-150	36	30	*R4*
2-Hexanone	17.9	2.5	ug/l	25.0	ND	72	20-150	19	30	
Iodomethane	33.4	2.5	ug/l	25.0	ND	134	60-150	4	30	
Isopropylbenzene	25.3	0.50	ug/l	25.0	ND	101	75-130	0.4	25	
p-Isopropyltoluene	23.9	0.50	ug/l	25.0	ND	96	70-130	2	30	
Methylene Chloride	23.8	1.0	ug/l	25.0	ND	95	65-130	3	20	
4-Methyl-2-pentanone (MIBK)	17.0	2.5	ug/l	25.0	ND	68	55-135	8	25	
Methyl-tert-butyl Ether (MTBE)	18.3	0.50	ug/l	25.0	ND	73	65-140	9	25	
Naphthalene	20.3	2.5	ug/l	25.0	ND	81	40-150	16	30	
n-Propylbenzene	24.3	0.50	ug/l	25.0	ND	97	70-130	0.1	30	
Styrene	16.5	0.50	ug/l	25.0	ND	66	55-135	19	35	
1,1,1,2-Tetrachloroethane	25.5	0.50	ug/l	25.0	ND	102	70-125	9	20	
1,1,2,2-Tetrachloroethane	21.3	0.50	ug/l	25.0	ND	85	70-125	4	25	
Tetrachloroethene	28.8	0.50	ug/l	25.0	1.94	107	65-130	2	25	
Toluene	25.8	0.50	ug/l	25.0	0.370	102	70-125	4	20	
1,2,3-Trichlorobenzene	24.3	1.0	ug/l	25.0	ND	97	50-150	20	35	
1,2,4-Trichlorobenzene	24.8	1.0	ug/l	25.0	ND	99	50-150	17	25	
1,1,1-Trichloroethane	23.1	0.50	ug/l	25.0	ND	92	70-130	2	25	
1,1,2-Trichloroethane	22.3	0.50	ug/l	25.0	ND	89	75-125	8	20	
Trichloroethene	56.7	0.50	ug/l	25.0	35.3	86	70-125	0.4	25	
Trichlorofluoromethane	21.1	0.50	ug/l	25.0	0.160	84	65-150	6	25	
1,2,3-Trichloropropane	18.3	1.0	ug/l	25.0	ND	73	70-130	3	25	
1,2,4-Trimethylbenzene	22.4	0.50	ug/l	25.0	ND	90	70-125	3	30	
1,3,5-Trimethylbenzene	23.7	0.50	ug/l	25.0	ND	95	75-130	0.3	25	
Vinyl Acetate	17.0	1.0	ug/l	25.0	ND	68	40-150	0.9	30	
Vinyl chloride	21.2	0.50	ug/l	25.0	ND	85	60-140	1	25	
Xylenes, Total	50.6	1.5	ug/l	50.0	ND	101	75-120	7	15	
Freon 113	22.3	2.0	ug/l	25.0	ND	89	65-140	10	20	
Surrogate: Dibromofluoromethane	*23.5*		*ug/l*	*25.0*		*94*	*80-130*			
Surrogate: Toluene-d8	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*		*ug/l*	*25.0*		*100*	*80-125*			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.013
Report Number: PUI0738

Sampled: 09/13/11
Received: 09/13/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0590 Extracted: 09/16/11										
Blank Analyzed: 09/18/2011 (11I0590-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*15.0*		*ug/l*	*20.0*		*75*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*18.9*		*ug/l*	*20.0*		*95*	*59.9-120*			
LCS Analyzed: 09/18/2011 (11I0590-BS1)										**Q8**
1,4-Dioxane	20.2	1.0	ug/l	20.0		101	80-120			
Surrogate: 1,4-Dioxane-d8	*15.0*		*ug/l*	*20.0*		*75*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*20.0*		*ug/l*	*20.0*		*100*	*38-125*			
LCS Dup Analyzed: 09/18/2011 (11I0590-BSD1)										**Q8**
1,4-Dioxane	20.2	1.0	ug/l	20.0		101	80-120	0.2	25	
Surrogate: 1,4-Dioxane-d8	*15.7*		*ug/l*	*20.0*		*79*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*20.6*		*ug/l*	*20.0*		*103*	*38-125*			

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Environmental Resources Management Inc.-West	Project ID: 0096498.013	
7272 E. Indian School Rd., Ste. 100		Sampled: 09/13/11
Scottsdale, AZ 85251	Report Number: PUI0738	Received: 09/13/11
Attention: Jason Hilker		

DATA QUALIFIERS AND DEFINITIONS

N1	See case narrative.
Q8	Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Project Manager

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Environmental Resources Management Inc.-West 7272 E. Indian School Rd., Ste. 100 Scottsdale, AZ 85251 Attention: Jason Hilker	Project ID: 0096498.013 Report Number: PUI0738	Sampled: 09/13/11 Received: 09/13/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

CHAIN OF CUSTODY FORM

[X] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Client Name/Address: ERM
7272 E Indian School Rd #100
Scottsdale, AZ 85251

Project/PO Number: 0096498.013

Project Manager: Jason Hilker
jason.hilker@erm.com

Phone Number: 480-998-2401

Sampler: Adam Nagle

Fax Number:

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOC (8260B)	1,4 Dioxane (8270D)								Special Instructions
003-105-S-091311	Wt	40mL / 1L	3 / 2	9/13/11	1002	HCl / -	X	X								PVI0738-01

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)
ERM	9/13 1700			same day ____ 72 hours ____
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours ____ 5 days ____
				48 hours ____ normal ✓
Relinquished By:	Date/Time:	Received In Lab By:	Date/Time: 9/13/11 1700	Sample Integrity: (Check) intact X on ice X

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

3.6°C, 2.4°C

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LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: OU3-New Wells 0096498.013

Sampled: 09/19/11
Received: 09/19/11
Revised: 11/06/11 09:49

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI1134-01	OU3-16M-M-091911	Water
PUI1134-02	OU3-16S-S-091911	Water
PUI1134-03	OU3-17S-S-091911-Q1	Water
PUI1134-04	GW-EB1-8-091911	Water
PUI1134-05	GW-L1-8-091911	Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
S10-Surrogate recovery was above acceptance limits.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: Revised report to reflect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells 0096498.013
Report Number: PUI1134

Sampled: 09/19/11
Received: 09/19/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1134-01 (OU3-16M-M-091911 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0882	10	ND	1	9/24/2011	9/24/2011	
Benzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Bromobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Bromochloromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Bromodichloromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Bromoform	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
Bromomethane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
2-Butanone (MEK)	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
n-Butylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
sec-Butylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
tert-Butylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Carbon disulfide	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Carbon tetrachloride	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Chlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Chloroethane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
Chloroform	EPA 8260B	11I0882	0.50	**1.9**	1	9/24/2011	9/24/2011	
Chloromethane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
2-Chlorotoluene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
4-Chlorotoluene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Dibromochloromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Dibromomethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Dichlorodifluoromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1-Dichloroethane	EPA 8260B	11I0882	0.50	**8.4**	1	9/24/2011	9/24/2011	
1,2-Dichloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1-Dichloroethene	EPA 8260B	11I0882	0.50	**13**	1	9/24/2011	9/24/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0882	0.50	**20**	1	9/24/2011	9/24/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dichloropropane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,3-Dichloropropane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
2,2-Dichloropropane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,1-Dichloropropene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Ethylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Hexachlorobutadiene	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	

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Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells 0096498.013
Report Number: PUI1134

Sampled: 09/19/11
Received: 09/19/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1134-01 (OU3-16M-M-091911 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
Iodomethane	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
Isopropylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
p-Isopropyltoluene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Methylene Chloride	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Naphthalene	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
n-Propylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Styrene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Tetrachloroethene	EPA 8260B	11I0882	0.50	**4.4**	1	9/24/2011	9/24/2011	
Toluene	EPA 8260B	11I0882	0.50	**2.6**	1	9/24/2011	9/24/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Trichloroethene	EPA 8260B	11I0882	0.50	**120**	1	9/24/2011	9/24/2011	
Trichlorofluoromethane	EPA 8260B	11I0882	0.50	**0.65**	1	9/24/2011	9/24/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Vinyl Acetate	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
Vinyl chloride	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Xylenes, Total	EPA 8260B	11I0882	1.5	ND	1	9/24/2011	9/24/2011	
Freon 113	EPA 8260B	11I0882	2.0	ND	1	9/24/2011	9/24/2011	
Surrogate: Dibromofluoromethane (80-130%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*90 %*				

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells 0096498.013
Report Number: PUI1134

Sampled: 09/19/11
Received: 09/19/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1134-02 (OU3-16S-S-091911 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0882	10	ND	1	9/24/2011	9/24/2011	
Benzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Bromobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Bromochloromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Bromodichloromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Bromoform	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
Bromomethane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
2-Butanone (MEK)	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
n-Butylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
sec-Butylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
tert-Butylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Carbon disulfide	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Carbon tetrachloride	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Chlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Chloroethane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
Chloroform	EPA 8260B	11I0882	0.50	**2.7**	1	9/24/2011	9/24/2011	
Chloromethane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
2-Chlorotoluene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
4-Chlorotoluene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Dibromochloromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Dibromomethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Dichlorodifluoromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1-Dichloroethane	EPA 8260B	11I0882	0.50	**4.9**	1	9/24/2011	9/24/2011	
1,2-Dichloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1-Dichloroethene	EPA 8260B	11I0882	0.50	**5.5**	1	9/24/2011	9/24/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0882	0.50	**8.9**	1	9/24/2011	9/24/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dichloropropane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,3-Dichloropropane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
2,2-Dichloropropane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,1-Dichloropropene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Ethylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Hexachlorobutadiene	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells 0096498.013
Report Number: PUI1134
Sampled: 09/19/11
Received: 09/19/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1134-02 (OU3-16S-S-091911 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
Iodomethane	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
Isopropylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
p-Isopropyltoluene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Methylene Chloride	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Naphthalene	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
n-Propylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Styrene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Tetrachloroethene	EPA 8260B	11I0882	0.50	**1.3**	1	9/24/2011	9/24/2011	
Toluene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Trichloroethene	EPA 8260B	11I0882	0.50	**39**	1	9/24/2011	9/24/2011	
Trichlorofluoromethane	EPA 8260B	11I0882	0.50	**0.57**	1	9/24/2011	9/24/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Vinyl Acetate	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
Vinyl chloride	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Xylenes, Total	EPA 8260B	11I0882	1.5	ND	1	9/24/2011	9/24/2011	
Freon 113	EPA 8260B	11I0882	2.0	ND	1	9/24/2011	9/24/2011	
Surrogate: Dibromofluoromethane (80-130%)				*103 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*91 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells 0096498.013
Report Number: PUI1134
Sampled: 09/19/11
Received: 09/19/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1134-03 (OU3-17S-S-091911-Q1 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0882	10	ND	1	9/24/2011	9/24/2011	
Benzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Bromobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Bromochloromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Bromodichloromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Bromoform	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
Bromomethane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
2-Butanone (MEK)	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
n-Butylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
sec-Butylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
tert-Butylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Carbon disulfide	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Carbon tetrachloride	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Chlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Chloroethane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
Chloroform	EPA 8260B	11I0882	0.50	**18**	1	9/24/2011	9/24/2011	
Chloromethane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
2-Chlorotoluene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
4-Chlorotoluene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Dibromochloromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Dibromomethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Dichlorodifluoromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1-Dichloroethane	EPA 8260B	11I0882	0.50	**0.57**	1	9/24/2011	9/24/2011	
1,2-Dichloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1-Dichloroethene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dichloropropane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,3-Dichloropropane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
2,2-Dichloropropane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,1-Dichloropropene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Ethylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Hexachlorobutadiene	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
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Attention: Jason Hilker

Project ID: OU3-New Wells 0096498.013
Report Number: PUI1134

Sampled: 09/19/11
Received: 09/19/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1134-03 (OU3-17S-S-091911-Q1 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
Iodomethane	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
Isopropylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
p-Isopropyltoluene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Methylene Chloride	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Naphthalene	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
n-Propylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Styrene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Tetrachloroethene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Toluene	EPA 8260B	11I0882	0.50	**0.55**	1	9/24/2011	9/24/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Trichloroethene	EPA 8260B	11I0882	0.50	**2.8**	1	9/24/2011	9/24/2011	
Trichlorofluoromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Vinyl Acetate	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
Vinyl chloride	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Xylenes, Total	EPA 8260B	11I0882	1.5	ND	1	9/24/2011	9/24/2011	
Freon 113	EPA 8260B	11I0882	2.0	ND	1	9/24/2011	9/24/2011	
Surrogate: Dibromofluoromethane (80-130%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*90 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells 0096498.013
Report Number: PUI1134

Sampled: 09/19/11
Received: 09/19/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1134-04 (GW-EB1-8-091911 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0882	10	ND	1	9/24/2011	9/24/2011	
Benzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Bromobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Bromochloromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Bromodichloromethane	EPA 8260B	11I0882	0.50	**1.2**	1	9/24/2011	9/24/2011	
Bromoform	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
Bromomethane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
2-Butanone (MEK)	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
n-Butylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
sec-Butylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
tert-Butylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Carbon disulfide	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Carbon tetrachloride	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Chlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Chloroethane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
Chloroform	EPA 8260B	11I0882	0.50	**3.6**	1	9/24/2011	9/24/2011	
Chloromethane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
2-Chlorotoluene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
4-Chlorotoluene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Dibromochloromethane	EPA 8260B	11I0882	0.50	**0.68**	1	9/24/2011	9/24/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Dibromomethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Dichlorodifluoromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1-Dichloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dichloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1-Dichloroethene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dichloropropane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,3-Dichloropropane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
2,2-Dichloropropane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,1-Dichloropropene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Ethylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Hexachlorobutadiene	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells 0096498.013
Report Number: PUI1134

Sampled: 09/19/11
Received: 09/19/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1134-04 (GW-EB1-8-091911 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
Iodomethane	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
Isopropylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
p-Isopropyltoluene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Methylene Chloride	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Naphthalene	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
n-Propylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Styrene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Tetrachloroethene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Toluene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Trichloroethene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Trichlorofluoromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Vinyl Acetate	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
Vinyl chloride	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Xylenes, Total	EPA 8260B	11I0882	1.5	ND	1	9/24/2011	9/24/2011	
Freon 113	EPA 8260B	11I0882	2.0	ND	1	9/24/2011	9/24/2011	
Surrogate: Dibromofluoromethane (80-130%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*91 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells 0096498.013
Report Number: PUI1134

Sampled: 09/19/11
Received: 09/19/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1134-05 (GW-L1-8-091911 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0882	10	ND	1	9/24/2011	9/24/2011	
Benzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Bromobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Bromochloromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Bromodichloromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Bromoform	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
Bromomethane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
2-Butanone (MEK)	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
n-Butylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
sec-Butylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
tert-Butylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Carbon disulfide	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Carbon tetrachloride	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Chlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Chloroethane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
Chloroform	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Chloromethane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
2-Chlorotoluene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
4-Chlorotoluene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Dibromochloromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Dibromomethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Dichlorodifluoromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1-Dichloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dichloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1-Dichloroethene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dichloropropane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,3-Dichloropropane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
2,2-Dichloropropane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,1-Dichloropropene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Ethylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Hexachlorobutadiene	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells 0096498.013
Report Number: PUI1134

Sampled: 09/19/11
Received: 09/19/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1134-05 (GW-L1-8-091911 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
Iodomethane	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
Isopropylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
p-Isopropyltoluene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Methylene Chloride	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Naphthalene	EPA 8260B	11I0882	2.5	ND	1	9/24/2011	9/24/2011	
n-Propylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Styrene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Tetrachloroethene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Toluene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Trichloroethene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Trichlorofluoromethane	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Vinyl Acetate	EPA 8260B	11I0882	1.0	ND	1	9/24/2011	9/24/2011	
Vinyl chloride	EPA 8260B	11I0882	0.50	ND	1	9/24/2011	9/24/2011	
Xylenes, Total	EPA 8260B	11I0882	1.5	ND	1	9/24/2011	9/24/2011	
Freon 113	EPA 8260B	11I0882	2.0	ND	1	9/24/2011	9/24/2011	
Surrogate: Dibromofluoromethane (80-130%)				*100 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*90 %*				

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells 0096498.013
Report Number: PUI1134
Sampled: 09/19/11
Received: 09/19/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1134-01 (OU3-16M-M-091911 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0714	1.1	**3.1**	1.11	9/20/2011	9/21/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*73 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*93 %*				
Sample ID: PUI1134-02 (OU3-16S-S-091911 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0714	1.0	**2.0**	1.05	9/20/2011	9/21/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*86 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*91 %*				
Sample ID: PUI1134-03 (OU3-17S-S-091911-Q1 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0714	1.1	ND	1.11	9/20/2011	9/22/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*75 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*94 %*				
Sample ID: PUI1134-04 (GW-EB1-8-091911 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0714	1.0	ND	1.08	9/20/2011	9/22/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*71 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*90 %*				

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Kylie Emily
Project Manager

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Report Number: PUI1134

Sampled: 09/19/11
Received: 09/19/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0882 Extracted: 09/24/11										
Blank Analyzed: 09/24/2011 (11I0882-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Kylie Emily
Project Manager

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Report Number: PUI1134
Sampled: 09/19/11
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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0882 Extracted: 09/24/11										
Blank Analyzed: 09/24/2011 (11I0882-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*25.7*		*ug/l*	*25.0*		*103*	*80-130*			
Surrogate: Toluene-d8	*24.8*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.0*		*ug/l*	*25.0*		*92*	*80-125*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0882 Extracted: 09/24/11										
LCS Analyzed: 09/24/2011 (11I0882-BS1)										
Acetone	21.6	10	ug/l	25.0		86	10-150			
Benzene	22.8	0.50	ug/l	25.0		91	80-120			
Bromobenzene	23.6	0.50	ug/l	25.0		95	80-120			
Bromochloromethane	21.0	0.50	ug/l	25.0		84	80-125			
Bromodichloromethane	22.2	0.50	ug/l	25.0		89	80-120			
Bromoform	22.3	1.0	ug/l	25.0		89	75-130			
Bromomethane	19.4	1.0	ug/l	25.0		78	55-150			
2-Butanone (MEK)	20.0	2.5	ug/l	25.0		80	40-150			
n-Butylbenzene	27.8	0.50	ug/l	25.0		111	80-130			
sec-Butylbenzene	27.4	0.50	ug/l	25.0		110	80-125			
tert-Butylbenzene	25.4	0.50	ug/l	25.0		102	80-120			
Carbon disulfide	26.2	0.50	ug/l	25.0		105	70-140			
Carbon tetrachloride	22.8	0.50	ug/l	25.0		91	75-130			
Chlorobenzene	23.3	0.50	ug/l	25.0		93	80-120			
Chloroethane	23.3	1.0	ug/l	25.0		93	70-130			
Chloroform	22.8	0.50	ug/l	25.0		91	75-120			
Chloromethane	19.0	1.0	ug/l	25.0		76	60-140			
2-Chlorotoluene	25.6	0.50	ug/l	25.0		102	80-120			
4-Chlorotoluene	26.3	0.50	ug/l	25.0		105	80-120			
Dibromochloromethane	22.0	0.50	ug/l	25.0		88	80-120			
1,2-Dibromo-3-chloropropane	22.7	2.5	ug/l	25.0		91	50-150			
1,2-Dibromoethane (EDB)	21.8	0.50	ug/l	25.0		87	80-120			
Dibromomethane	21.4	0.50	ug/l	25.0		86	75-120			
1,2-Dichlorobenzene	23.7	0.50	ug/l	25.0		95	80-120			
1,3-Dichlorobenzene	24.4	0.50	ug/l	25.0		98	80-120			
1,4-Dichlorobenzene	24.6	0.50	ug/l	25.0		98	80-120			
Dichlorodifluoromethane	19.0	0.50	ug/l	25.0		76	60-150			
1,1-Dichloroethane	23.3	0.50	ug/l	25.0		93	70-125			
1,2-Dichloroethane	23.6	0.50	ug/l	25.0		94	75-130			
1,1-Dichloroethene	22.0	0.50	ug/l	25.0		88	75-125			
cis-1,2-Dichloroethene	20.9	0.50	ug/l	25.0		84	80-120			
trans-1,2-Dichloroethene	22.0	0.50	ug/l	25.0		88	80-120			
1,2-Dichloropropane	22.7	0.50	ug/l	25.0		91	80-120			
1,3-Dichloropropane	23.2	0.50	ug/l	25.0		93	80-120			
2,2-Dichloropropane	23.1	1.0	ug/l	25.0		92	75-130			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells 0096498.013
Report Number: PUI1134
Sampled: 09/19/11
Received: 09/19/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0882 Extracted: 09/24/11										
LCS Analyzed: 09/24/2011 (11I0882-BS1)										
1,1-Dichloropropene	22.1	0.50	ug/l	25.0		88	75-120			
cis-1,3-Dichloropropene	21.7	0.50	ug/l	25.0		87	80-120			
trans-1,3-Dichloropropene	21.4	0.50	ug/l	25.0		85	80-125			
Ethylbenzene	24.1	0.50	ug/l	25.0		96	80-120			
Hexachlorobutadiene	23.8	1.0	ug/l	25.0		95	40-150			
2-Hexanone	23.1	2.5	ug/l	25.0		92	20-150			
Iodomethane	23.1	2.5	ug/l	25.0		92	80-130			
Isopropylbenzene	27.7	0.50	ug/l	25.0		111	80-130			
p-Isopropyltoluene	27.2	0.50	ug/l	25.0		109	80-130			
Methylene Chloride	21.0	1.0	ug/l	25.0		84	70-120			
4-Methyl-2-pentanone (MIBK)	22.7	2.5	ug/l	25.0		91	60-135			
Methyl-tert-butyl Ether (MTBE)	21.1	0.50	ug/l	25.0		85	70-130			
Naphthalene	23.6	2.5	ug/l	25.0		94	40-150			
n-Propylbenzene	26.8	0.50	ug/l	25.0		107	75-130			
Styrene	21.1	0.50	ug/l	25.0		84	80-120			
1,1,1,2-Tetrachloroethane	22.0	0.50	ug/l	25.0		88	75-125			
1,1,2,2-Tetrachloroethane	24.8	0.50	ug/l	25.0		99	80-120			
Tetrachloroethene	22.4	0.50	ug/l	25.0		89	70-130			
Toluene	22.2	0.50	ug/l	25.0		89	80-120			
1,2,3-Trichlorobenzene	23.5	1.0	ug/l	25.0		94	55-150			
1,2,4-Trichlorobenzene	23.3	1.0	ug/l	25.0		93	50-150			
1,1,1-Trichloroethane	23.3	0.50	ug/l	25.0		93	75-125			
1,1,2-Trichloroethane	20.9	0.50	ug/l	25.0		84	80-120			
Trichloroethene	22.8	0.50	ug/l	25.0		91	80-120			
Trichlorofluoromethane	22.5	0.50	ug/l	25.0		90	70-150			
1,2,3-Trichloropropane	23.4	1.0	ug/l	25.0		94	70-130			
1,2,4-Trimethylbenzene	25.4	0.50	ug/l	25.0		101	80-120			
1,3,5-Trimethylbenzene	26.1	0.50	ug/l	25.0		104	80-130			
Vinyl Acetate	23.8	1.0	ug/l	25.0		95	40-150			
Vinyl chloride	21.0	0.50	ug/l	25.0		84	70-130			
Xylenes, Total	44.0	1.5	ug/l	50.0		88	60-140			
Freon 113	22.2	2.0	ug/l	25.0		89	60-140			
Surrogate: Dibromofluoromethane	*25.2*		*ug/l*	*25.0*		*101*	*80-130*			
Surrogate: Toluene-d8	*24.5*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.9*		*ug/l*	*25.0*		*95*	*80-125*			

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Attention: Jason Hilker

Project ID: OU3-New Wells 0096498.013
Report Number: PUI1134

Sampled: 09/19/11
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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0882 Extracted: 09/24/11										
LCS Dup Analyzed: 09/24/2011 (11I0882-BSD1)										
Acetone	20.5	10	ug/l	25.0		82	10-150	5	35	
Benzene	24.4	0.50	ug/l	25.0		97	80-120	7	15	
Bromobenzene	25.1	0.50	ug/l	25.0		100	80-120	6	15	
Bromochloromethane	21.5	0.50	ug/l	25.0		86	80-125	2	15	
Bromodichloromethane	23.5	0.50	ug/l	25.0		94	80-120	6	15	
Bromoform	23.3	1.0	ug/l	25.0		93	75-130	4	20	
Bromomethane	20.5	1.0	ug/l	25.0		82	55-150	5	20	
2-Butanone (MEK)	20.4	2.5	ug/l	25.0		82	40-150	2	35	
n-Butylbenzene	29.5	0.50	ug/l	25.0		118	80-130	6	15	
sec-Butylbenzene	29.2	0.50	ug/l	25.0		117	80-125	6	15	
tert-Butylbenzene	27.5	0.50	ug/l	25.0		110	80-120	8	15	
Carbon disulfide	27.3	0.50	ug/l	25.0		109	70-140	4	15	
Carbon tetrachloride	24.5	0.50	ug/l	25.0		98	75-130	7	20	
Chlorobenzene	24.9	0.50	ug/l	25.0		100	80-120	6	15	
Chloroethane	24.1	1.0	ug/l	25.0		96	70-130	4	15	
Chloroform	24.4	0.50	ug/l	25.0		97	75-120	7	15	
Chloromethane	19.9	1.0	ug/l	25.0		79	60-140	4	20	
2-Chlorotoluene	27.5	0.50	ug/l	25.0		110	80-120	7	15	
4-Chlorotoluene	28.3	0.50	ug/l	25.0		113	80-120	8	15	
Dibromochloromethane	23.2	0.50	ug/l	25.0		93	80-120	5	15	
1,2-Dibromo-3-chloropropane	23.3	2.5	ug/l	25.0		93	50-150	3	35	
1,2-Dibromoethane (EDB)	22.9	0.50	ug/l	25.0		92	80-120	5	15	
Dibromomethane	22.2	0.50	ug/l	25.0		89	75-120	3	15	
1,2-Dichlorobenzene	25.3	0.50	ug/l	25.0		101	80-120	6	15	
1,3-Dichlorobenzene	26.3	0.50	ug/l	25.0		105	80-120	7	15	
1,4-Dichlorobenzene	26.2	0.50	ug/l	25.0		105	80-120	7	15	
Dichlorodifluoromethane	19.4	0.50	ug/l	25.0		78	60-150	2	30	
1,1-Dichloroethane	25.0	0.50	ug/l	25.0		100	70-125	7	15	
1,2-Dichloroethane	24.6	0.50	ug/l	25.0		99	75-130	4	15	
1,1-Dichloroethene	23.2	0.50	ug/l	25.0		93	75-125	6	20	
cis-1,2-Dichloroethene	22.2	0.50	ug/l	25.0		89	80-120	6	15	
trans-1,2-Dichloroethene	23.1	0.50	ug/l	25.0		92	80-120	5	15	
1,2-Dichloropropane	24.0	0.50	ug/l	25.0		96	80-120	6	15	
1,3-Dichloropropane	24.5	0.50	ug/l	25.0		98	80-120	5	15	
2,2-Dichloropropane	24.6	1.0	ug/l	25.0		98	75-130	6	15	

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0882 Extracted: 09/24/11										
LCS Dup Analyzed: 09/24/2011 (11I0882-BSD1)										
1,1-Dichloropropene	23.4	0.50	ug/l	25.0		93	75-120	6	15	
cis-1,3-Dichloropropene	22.7	0.50	ug/l	25.0		91	80-120	4	15	
trans-1,3-Dichloropropene	22.1	0.50	ug/l	25.0		88	80-125	3	15	
Ethylbenzene	25.6	0.50	ug/l	25.0		102	80-120	6	15	
Hexachlorobutadiene	25.4	1.0	ug/l	25.0		102	40-150	6	35	
2-Hexanone	23.0	2.5	ug/l	25.0		92	20-150	0.4	35	
Iodomethane	24.3	2.5	ug/l	25.0		97	80-130	5	10	
Isopropylbenzene	29.9	0.50	ug/l	25.0		120	80-130	8	15	
p-Isopropyltoluene	29.0	0.50	ug/l	25.0		116	80-130	7	15	
Methylene Chloride	22.2	1.0	ug/l	25.0		89	70-120	5	15	
4-Methyl-2-pentanone (MIBK)	22.7	2.5	ug/l	25.0		91	60-135	0.1	25	
Methyl-tert-butyl Ether (MTBE)	21.5	0.50	ug/l	25.0		86	70-130	2	20	
Naphthalene	25.2	2.5	ug/l	25.0		101	40-150	7	30	
n-Propylbenzene	28.9	0.50	ug/l	25.0		116	75-130	8	15	
Styrene	22.5	0.50	ug/l	25.0		90	80-120	7	15	
1,1,1,2-Tetrachloroethane	23.4	0.50	ug/l	25.0		93	75-125	6	15	
1,1,2,2-Tetrachloroethane	25.8	0.50	ug/l	25.0		103	80-120	4	20	
Tetrachloroethene	24.2	0.50	ug/l	25.0		97	70-130	8	20	
Toluene	23.7	0.50	ug/l	25.0		95	80-120	7	15	
1,2,3-Trichlorobenzene	25.5	1.0	ug/l	25.0		102	55-150	8	35	
1,2,4-Trichlorobenzene	24.6	1.0	ug/l	25.0		98	50-150	5	30	
1,1,1-Trichloroethane	24.6	0.50	ug/l	25.0		98	75-125	6	15	
1,1,2-Trichloroethane	21.5	0.50	ug/l	25.0		86	80-120	3	15	
Trichloroethene	23.8	0.50	ug/l	25.0		95	80-120	5	15	
Trichlorofluoromethane	23.4	0.50	ug/l	25.0		94	70-150	4	25	
1,2,3-Trichloropropane	24.2	1.0	ug/l	25.0		97	70-130	4	20	
1,2,4-Trimethylbenzene	27.1	0.50	ug/l	25.0		108	80-120	7	15	
1,3,5-Trimethylbenzene	28.2	0.50	ug/l	25.0		113	80-130	8	15	
Vinyl Acetate	24.3	1.0	ug/l	25.0		97	40-150	2	25	
Vinyl chloride	21.6	0.50	ug/l	25.0		86	70-130	3	20	
Xylenes, Total	46.6	1.5	ug/l	50.0		93	60-140	6	15	
Freon 113	23.0	2.0	ug/l	25.0		92	60-140	4	15	
Surrogate: Dibromofluoromethane	*25.0*		*ug/l*	*25.0*		*100*	*80-130*			
Surrogate: Toluene-d8	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*		*ug/l*	*25.0*		*94*	*80-125*			

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Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells 0096498.013
Report Number: PUI1134

Sampled: 09/19/11
Received: 09/19/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0882 Extracted: 09/24/11										
Matrix Spike Analyzed: 09/24/2011 (11I0882-MS1)					**Source: PUI1134-02**					
Acetone	15.1	10	ug/l	25.0	ND	60	10-150			
Benzene	23.7	0.50	ug/l	25.0	0.170	94	70-125			
Bromobenzene	24.4	0.50	ug/l	25.0	ND	98	75-120			
Bromochloromethane	21.4	0.50	ug/l	25.0	ND	85	75-130			
Bromodichloromethane	23.4	0.50	ug/l	25.0	0.380	92	75-125			
Bromoform	23.4	1.0	ug/l	25.0	ND	94	65-125			
Bromomethane	20.2	1.0	ug/l	25.0	ND	81	45-150			
2-Butanone (MEK)	19.5	2.5	ug/l	25.0	ND	78	15-150			
n-Butylbenzene	27.8	0.50	ug/l	25.0	ND	111	70-130			
sec-Butylbenzene	27.8	0.50	ug/l	25.0	ND	111	70-125			
tert-Butylbenzene	26.5	0.50	ug/l	25.0	ND	106	70-125			
Carbon disulfide	28.3	0.50	ug/l	25.0	ND	113	65-145			
Carbon tetrachloride	24.2	0.50	ug/l	25.0	ND	97	65-135			
Chlorobenzene	24.6	0.50	ug/l	25.0	ND	98	75-120			
Chloroethane	24.6	1.0	ug/l	25.0	ND	98	65-140			
Chloroform	26.3	0.50	ug/l	25.0	2.72	94	70-130			
Chloromethane	20.5	1.0	ug/l	25.0	ND	82	55-145			
2-Chlorotoluene	26.7	0.50	ug/l	25.0	ND	107	70-125			
4-Chlorotoluene	27.5	0.50	ug/l	25.0	ND	110	70-125			
Dibromochloromethane	22.8	0.50	ug/l	25.0	ND	91	70-130			
1,2-Dibromo-3-chloropropane	23.1	2.5	ug/l	25.0	ND	92	50-150			
1,2-Dibromoethane (EDB)	22.8	0.50	ug/l	25.0	ND	91	70-125			
Dibromomethane	21.5	0.50	ug/l	25.0	ND	86	70-120			
1,2-Dichlorobenzene	24.6	0.50	ug/l	25.0	ND	98	75-120			
1,3-Dichlorobenzene	25.5	0.50	ug/l	25.0	ND	102	75-120			
1,4-Dichlorobenzene	25.4	0.50	ug/l	25.0	ND	102	70-125			
Dichlorodifluoromethane	20.6	0.50	ug/l	25.0	ND	82	60-150			
1,1-Dichloroethane	29.1	0.50	ug/l	25.0	4.92	97	70-130			
1,2-Dichloroethane	24.4	0.50	ug/l	25.0	ND	98	65-140			
1,1-Dichloroethene	29.1	0.50	ug/l	25.0	5.51	95	70-130			
cis-1,2-Dichloroethene	30.4	0.50	ug/l	25.0	8.91	86	70-125			
trans-1,2-Dichloroethene	23.4	0.50	ug/l	25.0	ND	94	75-125			
1,2-Dichloropropane	23.8	0.50	ug/l	25.0	ND	95	75-125			
1,3-Dichloropropane	24.2	0.50	ug/l	25.0	ND	97	70-120			
2,2-Dichloropropane	25.2	1.0	ug/l	25.0	ND	101	65-140			

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells 0096498.013
Report Number: PUI1134

Sampled: 09/19/11
Received: 09/19/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0882 Extracted: 09/24/11										
Matrix Spike Analyzed: 09/24/2011 (11I0882-MS1)					**Source: PUI1134-02**					
1,1-Dichloropropene	23.2	0.50	ug/l	25.0	ND	93	65-130			
cis-1,3-Dichloropropene	22.3	0.50	ug/l	25.0	ND	89	75-130			
trans-1,3-Dichloropropene	21.7	0.50	ug/l	25.0	ND	87	70-130			
Ethylbenzene	25.1	0.50	ug/l	25.0	ND	100	70-125			
Hexachlorobutadiene	24.6	1.0	ug/l	25.0	ND	98	40-150			
2-Hexanone	23.1	2.5	ug/l	25.0	ND	92	20-150			
Iodomethane	23.9	2.5	ug/l	25.0	ND	96	60-150			
Isopropylbenzene	28.8	0.50	ug/l	25.0	ND	115	75-130			
p-Isopropyltoluene	27.6	0.50	ug/l	25.0	ND	110	70-130			
Methylene Chloride	21.7	1.0	ug/l	25.0	ND	87	65-130			
4-Methyl-2-pentanone (MIBK)	22.8	2.5	ug/l	25.0	ND	91	55-135			
Methyl-tert-butyl Ether (MTBE)	21.4	0.50	ug/l	25.0	ND	86	65-140			
Naphthalene	24.1	2.5	ug/l	25.0	ND	97	40-150			
n-Propylbenzene	27.8	0.50	ug/l	25.0	ND	111	70-130			
Styrene	21.8	0.50	ug/l	25.0	ND	87	55-135			
1,1,1,2-Tetrachloroethane	23.1	0.50	ug/l	25.0	ND	92	70-125			
1,1,2,2-Tetrachloroethane	25.5	0.50	ug/l	25.0	ND	102	70-125			
Tetrachloroethene	25.4	0.50	ug/l	25.0	1.29	96	65-130			
Toluene	22.8	0.50	ug/l	25.0	ND	91	70-125			
1,2,3-Trichlorobenzene	23.9	1.0	ug/l	25.0	ND	96	50-150			
1,2,4-Trichlorobenzene	23.4	1.0	ug/l	25.0	ND	94	50-150			
1,1,1-Trichloroethane	24.3	0.50	ug/l	25.0	ND	97	70-130			
1,1,2-Trichloroethane	21.1	0.50	ug/l	25.0	ND	85	75-125			
Trichloroethene	62.5	0.50	ug/l	25.0	39.4	92	70-125			
Trichlorofluoromethane	24.3	0.50	ug/l	25.0	0.570	95	65-150			
1,2,3-Trichloropropane	24.9	1.0	ug/l	25.0	ND	100	70-130			
1,2,4-Trimethylbenzene	26.3	0.50	ug/l	25.0	ND	105	70-125			
1,3,5-Trimethylbenzene	27.5	0.50	ug/l	25.0	ND	110	75-130			
Vinyl Acetate	24.1	1.0	ug/l	25.0	ND	96	40-150			
Vinyl chloride	24.0	0.50	ug/l	25.0	ND	96	60-140			
Xylenes, Total	45.6	1.5	ug/l	50.0	ND	91	75-120			
Freon 113	23.4	2.0	ug/l	25.0	0.210	93	65-140			
Surrogate: Dibromofluoromethane	*25.3*		*ug/l*	*25.0*		*101*	*80-130*			
Surrogate: Toluene-d8	*24.4*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.7*		*ug/l*	*25.0*		*95*	*80-125*			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells 0096498.013
Report Number: PUI1134

Sampled: 09/19/11
Received: 09/19/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0882 Extracted: 09/24/11										
Matrix Spike Dup Analyzed: 09/24/2011 (11I0882-MSD1)					**Source: PUI1134-02**					
Acetone	14.7	10	ug/l	25.0	ND	59	10-150	2	35	
Benzene	23.1	0.50	ug/l	25.0	0.170	92	70-125	3	25	
Bromobenzene	23.5	0.50	ug/l	25.0	ND	94	75-120	4	20	
Bromochloromethane	20.8	0.50	ug/l	25.0	ND	83	75-130	3	20	
Bromodichloromethane	22.6	0.50	ug/l	25.0	0.380	89	75-125	4	20	
Bromoform	22.2	1.0	ug/l	25.0	ND	89	65-125	5	25	
Bromomethane	20.7	1.0	ug/l	25.0	ND	83	45-150	3	35	
2-Butanone (MEK)	18.8	2.5	ug/l	25.0	ND	75	15-150	4	30	
n-Butylbenzene	28.0	0.50	ug/l	25.0	ND	112	70-130	0.6	30	
sec-Butylbenzene	27.9	0.50	ug/l	25.0	ND	111	70-125	0.2	30	
tert-Butylbenzene	26.1	0.50	ug/l	25.0	ND	104	70-125	1	25	
Carbon disulfide	27.7	0.50	ug/l	25.0	ND	111	65-145	2	25	
Carbon tetrachloride	23.9	0.50	ug/l	25.0	ND	96	65-135	1	25	
Chlorobenzene	23.8	0.50	ug/l	25.0	ND	95	75-120	4	20	
Chloroethane	24.0	1.0	ug/l	25.0	ND	96	65-140	3	25	
Chloroform	25.7	0.50	ug/l	25.0	2.72	92	70-130	2	20	
Chloromethane	20.3	1.0	ug/l	25.0	ND	81	55-145	0.9	35	
2-Chlorotoluene	26.0	0.50	ug/l	25.0	ND	104	70-125	3	25	
4-Chlorotoluene	26.4	0.50	ug/l	25.0	ND	106	70-125	4	25	
Dibromochloromethane	22.2	0.50	ug/l	25.0	ND	89	70-130	2	20	
1,2-Dibromo-3-chloropropane	21.6	2.5	ug/l	25.0	ND	86	50-150	7	30	
1,2-Dibromoethane (EDB)	22.0	0.50	ug/l	25.0	ND	88	70-125	3	20	
Dibromomethane	20.9	0.50	ug/l	25.0	ND	84	70-120	3	20	
1,2-Dichlorobenzene	23.6	0.50	ug/l	25.0	ND	94	75-120	4	20	
1,3-Dichlorobenzene	24.4	0.50	ug/l	25.0	ND	98	75-120	4	25	
1,4-Dichlorobenzene	24.6	0.50	ug/l	25.0	ND	98	70-125	3	20	
Dichlorodifluoromethane	21.0	0.50	ug/l	25.0	ND	84	60-150	2	30	
1,1-Dichloroethane	28.6	0.50	ug/l	25.0	4.92	95	70-130	2	20	
1,2-Dichloroethane	23.5	0.50	ug/l	25.0	ND	94	65-140	4	20	
1,1-Dichloroethene	28.8	0.50	ug/l	25.0	5.51	93	70-130	1	25	
cis-1,2-Dichloroethene	30.0	0.50	ug/l	25.0	8.91	84	70-125	2	20	
trans-1,2-Dichloroethene	23.0	0.50	ug/l	25.0	ND	92	75-125	2	25	
1,2-Dichloropropane	22.8	0.50	ug/l	25.0	ND	91	75-125	4	20	
1,3-Dichloropropane	23.4	0.50	ug/l	25.0	ND	94	70-120	3	20	
2,2-Dichloropropane	24.6	1.0	ug/l	25.0	ND	98	65-140	3	25	

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells 0096498.013
Report Number: PUI1134

Sampled: 09/19/11
Received: 09/19/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0882 Extracted: 09/24/11										
Matrix Spike Dup Analyzed: 09/24/2011 (11I0882-MSD1)					**Source: PUI1134-02**					
1,1-Dichloropropene	22.8	0.50	ug/l	25.0	ND	91	65-130	2	25	
cis-1,3-Dichloropropene	21.5	0.50	ug/l	25.0	ND	86	75-130	4	20	
trans-1,3-Dichloropropene	20.6	0.50	ug/l	25.0	ND	82	70-130	5	20	
Ethylbenzene	24.7	0.50	ug/l	25.0	ND	99	70-125	2	25	
Hexachlorobutadiene	23.9	1.0	ug/l	25.0	ND	96	40-150	3	30	
2-Hexanone	21.9	2.5	ug/l	25.0	ND	88	20-150	5	30	
Iodomethane	24.5	2.5	ug/l	25.0	ND	98	60-150	3	30	
Isopropylbenzene	28.5	0.50	ug/l	25.0	ND	114	75-130	1	25	
p-Isopropyltoluene	27.4	0.50	ug/l	25.0	ND	110	70-130	0.4	30	
Methylene Chloride	21.0	1.0	ug/l	25.0	ND	84	65-130	4	20	
4-Methyl-2-pentanone (MIBK)	21.8	2.5	ug/l	25.0	ND	87	55-135	5	25	
Methyl-tert-butyl Ether (MTBE)	21.1	0.50	ug/l	25.0	ND	85	65-140	1	25	
Naphthalene	23.0	2.5	ug/l	25.0	ND	92	40-150	5	30	
n-Propylbenzene	27.5	0.50	ug/l	25.0	ND	110	70-130	0.8	30	
Styrene	21.1	0.50	ug/l	25.0	ND	85	55-135	3	35	
1,1,1,2-Tetrachloroethane	22.3	0.50	ug/l	25.0	ND	89	70-125	3	20	
1,1,2,2-Tetrachloroethane	24.2	0.50	ug/l	25.0	ND	97	70-125	5	25	
Tetrachloroethene	25.2	0.50	ug/l	25.0	1.29	96	65-130	0.7	25	
Toluene	22.2	0.50	ug/l	25.0	ND	89	70-125	3	20	
1,2,3-Trichlorobenzene	22.5	1.0	ug/l	25.0	ND	90	50-150	6	35	
1,2,4-Trichlorobenzene	22.7	1.0	ug/l	25.0	ND	91	50-150	3	25	
1,1,1-Trichloroethane	24.0	0.50	ug/l	25.0	ND	96	70-130	1	25	
1,1,2-Trichloroethane	20.3	0.50	ug/l	25.0	ND	81	75-125	4	20	
Trichloroethene	61.9	0.50	ug/l	25.0	39.4	90	70-125	0.9	25	
Trichlorofluoromethane	24.2	0.50	ug/l	25.0	0.570	95	65-150	0.5	25	
1,2,3-Trichloropropane	23.6	1.0	ug/l	25.0	ND	94	70-130	5	25	
1,2,4-Trimethylbenzene	25.4	0.50	ug/l	25.0	ND	102	70-125	3	30	
1,3,5-Trimethylbenzene	26.8	0.50	ug/l	25.0	ND	107	75-130	3	25	
Vinyl Acetate	23.1	1.0	ug/l	25.0	ND	92	40-150	4	30	
Vinyl chloride	24.0	0.50	ug/l	25.0	ND	96	60-140	0.2	25	
Xylenes, Total	44.8	1.5	ug/l	50.0	ND	90	75-120	2	15	
Freon 113	23.8	2.0	ug/l	25.0	0.210	94	65-140	2	20	
Surrogate: Dibromofluoromethane	*25.5*		*ug/l*	*25.0*		*102*	*80-130*			
Surrogate: Toluene-d8	*24.5*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*		*ug/l*	*25.0*		*97*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West 7272 E. Indian School Rd., Ste. 100 Scottsdale, AZ 85251 Attention: Jason Hilker	Project ID: OU3-New Wells 0096498.013 Report Number: PUI1134	Sampled: 09/19/11 Received: 09/19/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0714 Extracted: 09/20/11										
Blank Analyzed: 09/21/2011 (11I0714-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*14.7*		*ug/l*	*20.0*		*74*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*17.6*		*ug/l*	*20.0*		*88*	*59.9-120*			
LCS Analyzed: 09/21/2011 (11I0714-BS1)										
1,4-Dioxane	20.0	1.0	ug/l	20.0		100	80-120			
Surrogate: 1,4-Dioxane-d8	*15.4*		*ug/l*	*20.0*		*77*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*17.9*		*ug/l*	*20.0*		*89*	*38-125*			
LCS Dup Analyzed: 09/21/2011 (11I0714-BSD1)										
1,4-Dioxane	20.4	1.0	ug/l	20.0		102	80-120	2	25	
Surrogate: 1,4-Dioxane-d8	*14.3*		*ug/l*	*20.0*		*72*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*16.9*		*ug/l*	*20.0*		*84*	*38-125*			
Matrix Spike Analyzed: 09/21/2011 (11I0714-MS1)					**Source: PUI1134-02**					
1,4-Dioxane	24.4	1.1	ug/l	22.2	2.00	101	70-130			
Surrogate: 1,4-Dioxane-d8	*17.7*		*ug/l*	*22.2*		*79*	*36-81*			
Surrogate: Nitrobenzene-d5	*19.6*		*ug/l*	*22.2*		*88*	*59-120*			
Matrix Spike Dup Analyzed: 09/21/2011 (11I0714-MSD1)					**Source: PUI1134-02**					
1,4-Dioxane	25.5	1.2	ug/l	23.5	2.00	100	70-130	5	25	
Surrogate: 1,4-Dioxane-d8	*18.3*		*ug/l*	*23.5*		*78*	*36-81*			
Surrogate: Nitrobenzene-d5	*22.0*		*ug/l*	*23.5*		*94*	*59-120*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West	Project ID: OU3-New Wells 0096498.013	
7272 E. Indian School Rd., Ste. 100		Sampled: 09/19/11
Scottsdale, AZ 85251	Report Number: PUI1134	Received: 09/19/11
Attention: Jason Hilker		

DATA QUALIFIERS AND DEFINITIONS

S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West 7272 E. Indian School Rd., Ste. 100 Scottsdale, AZ 85251 Attention: Jason Hilker	Project ID: OU3-New Wells 0096498.013 Report Number: PUI1134	Sampled: 09/19/11 Received: 09/19/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management

CHAIN OF CUSTODY RECORD

PCI1134 **NO:** 3050

7272 E. Indian School Road, Suite 100 • Scottsdale, AZ • 85251 • (480) 998-2401 • FAX (480) 998-2106

PROJECT #	PROJECT NAME
0096498.0103	OU3 - New Wells

SAMPLER: (PRINT NAME)	(SIGNATURE)
Kyle Johnson	[signature]

RECEIVING LABORATORY: Test America, Phoenix AZ

SAMPLE I.D.	DATE	TIME	COMP	GRAB	SAMPLING METHOD	PRESERVATIVE	ICE (Y/N)	SAMPLING VOLUME	# OF CONTAINERS	MATRIX: SOIL	MATRIX: WATER	MATRIX: GAS	VOC (8260B)	1,4-Dioxane (8270C)	MSMSD									
OU3-16M-M -091911	9/19/11	1113		X	Pump	HCl / –	Y	40mL / 1L	3 / 2		X		X	X				-01						
OU3-16S-S -091911		1152		X	Pump	HCl / –	Y	40mL / 1L	3 / 2		X		X	X				-02						
OU3-16S-S -091911-MSMSD		1152		X	Pump	HCl / –	Y	40mL / 1L	3 / 4		X		X	X	X			1						
~~OU3-17S-S -091911~~																								
OU3-17S-S -091911-Q1		1319		X	Pump	HCl / –	Y	40mL / 1L	3 / 2		X		X	X				-03						
~~OU3-19M-M -091911~~																								
GW-BP1-8 -091911		1518		X	–	HCl / –	Y	40mL / 1L	3 / 2		X		X	X				-04						
GW-LL-8 -091911		–	–	–	–	HCl	Y	40mL	1		X		X					TRIP BLANK -05						

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	9/19/11	1642			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
			[signature]	9/19/11	1642

FIELD REMARKS: 2.9° 0.5°

REMARKS ON SAMPLE RECEIPT: ☐ BOTTLE INTACT ☐ CUSTODY SEALS ☐ CHILLED ☐ PRESERVED ☐ SEALS INTACT ☐ SEE REMARKS

ERM REMARKS:

SEND REPORT TO: Jason.Hilber@ERM.com

WHITE – LABORATORY COPY CANARY – FIELD COPY PINK – DATABASE GOLD – PROJECT FILE

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: OU3/0096498.013

Sampled: 09/19/11
Received: 09/19/11
Revised: 11/06/11 09:56

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI1135-01	OU3-17S-S-091911	Water
PUI1135-02	OU3-19M-M-091911	Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
S10-Surrogate recovery was above acceptance limits.
R1-The RPD exceeded the acceptance limit.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: Revised report to reflect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3/0096498.013
Report Number: PUI1135

Sampled: 09/19/11
Received: 09/19/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1135-01 (OU3-17S-S-091911 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0874	10	ND	1	9/24/2011	9/24/2011	
Benzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Bromobenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Bromochloromethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Bromodichloromethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Bromoform	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
Bromomethane	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
2-Butanone (MEK)	EPA 8260B	11I0874	2.5	ND	1	9/24/2011	9/24/2011	
n-Butylbenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
sec-Butylbenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
tert-Butylbenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Carbon disulfide	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Carbon tetrachloride	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Chlorobenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Chloroethane	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
Chloroform	EPA 8260B	11I0874	0.50	**18**	1	9/24/2011	9/24/2011	
Chloromethane	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
2-Chlorotoluene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
4-Chlorotoluene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Dibromochloromethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0874	2.5	ND	1	9/24/2011	9/24/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Dibromomethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Dichlorodifluoromethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,1-Dichloroethane	EPA 8260B	11I0874	0.50	**0.52**	1	9/24/2011	9/24/2011	
1,2-Dichloroethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,1-Dichloroethene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dichloropropane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,3-Dichloropropane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
2,2-Dichloropropane	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
1,1-Dichloropropene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Ethylbenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Hexachlorobutadiene	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	

TestAmerica Phoenix

Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3/0096498.013
Report Number: PUI1135

Sampled: 09/19/11
Received: 09/19/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1135-01 (OU3-17S-S-091911 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0874	2.5	ND	1	9/24/2011	9/24/2011	
Iodomethane	EPA 8260B	11I0874	2.5	ND	1	9/24/2011	9/24/2011	
Isopropylbenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
p-Isopropyltoluene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Methylene Chloride	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0874	2.5	ND	1	9/24/2011	9/24/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Naphthalene	EPA 8260B	11I0874	2.5	ND	1	9/24/2011	9/24/2011	
n-Propylbenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Styrene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Tetrachloroethene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Toluene	EPA 8260B	11I0874	0.50	**0.62**	1	9/24/2011	9/24/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Trichloroethene	EPA 8260B	11I0874	0.50	**2.9**	1	9/24/2011	9/24/2011	
Trichlorofluoromethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Vinyl Acetate	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
Vinyl chloride	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Xylenes, Total	EPA 8260B	11I0874	1.5	ND	1	9/24/2011	9/24/2011	
Freon 113	EPA 8260B	11I0874	2.0	ND	1	9/24/2011	9/24/2011	
Surrogate: Dibromofluoromethane (80-130%)				*104 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*106 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3/0096498.013
Report Number: PUI1135

Sampled: 09/19/11
Received: 09/19/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1135-02 (OU3-19M-M-091911 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0874	10	ND	1	9/24/2011	9/24/2011	
Benzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Bromobenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Bromochloromethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Bromodichloromethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Bromoform	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
Bromomethane	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
2-Butanone (MEK)	EPA 8260B	11I0874	2.5	ND	1	9/24/2011	9/24/2011	
n-Butylbenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
sec-Butylbenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
tert-Butylbenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Carbon disulfide	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Carbon tetrachloride	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Chlorobenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Chloroethane	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
Chloroform	EPA 8260B	11I0874	0.50	**1.2**	1	9/24/2011	9/24/2011	
Chloromethane	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
2-Chlorotoluene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
4-Chlorotoluene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Dibromochloromethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0874	2.5	ND	1	9/24/2011	9/24/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Dibromomethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Dichlorodifluoromethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,1-Dichloroethane	EPA 8260B	11I0874	0.50	**7.9**	1	9/24/2011	9/24/2011	
1,2-Dichloroethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,1-Dichloroethene	EPA 8260B	11I0874	0.50	**12**	1	9/24/2011	9/24/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0874	0.50	**15**	1	9/24/2011	9/24/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,2-Dichloropropane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,3-Dichloropropane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
2,2-Dichloropropane	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
1,1-Dichloropropene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Ethylbenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Hexachlorobutadiene	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3/0096498.013
Report Number: PUI1135

Sampled: 09/19/11
Received: 09/19/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1135-02 (OU3-19M-M-091911 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0874	2.5	ND	1	9/24/2011	9/24/2011	
Iodomethane	EPA 8260B	11I0874	2.5	ND	1	9/24/2011	9/24/2011	
Isopropylbenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
p-Isopropyltoluene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Methylene Chloride	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0874	2.5	ND	1	9/24/2011	9/24/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Naphthalene	EPA 8260B	11I0874	2.5	ND	1	9/24/2011	9/24/2011	
n-Propylbenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Styrene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Tetrachloroethene	EPA 8260B	11I0874	0.50	**2.8**	1	9/24/2011	9/24/2011	
Toluene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Trichloroethene	EPA 8260B	11I0874	0.50	**66**	1	9/24/2011	9/24/2011	
Trichlorofluoromethane	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Vinyl Acetate	EPA 8260B	11I0874	1.0	ND	1	9/24/2011	9/24/2011	
Vinyl chloride	EPA 8260B	11I0874	0.50	ND	1	9/24/2011	9/24/2011	
Xylenes, Total	EPA 8260B	11I0874	1.5	ND	1	9/24/2011	9/24/2011	
Freon 113	EPA 8260B	11I0874	2.0	ND	1	9/24/2011	9/24/2011	
Surrogate: Dibromofluoromethane (80-130%)				*104 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*106 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3/0096498.013
Report Number: PUI1135

Sampled: 09/19/11
Received: 09/19/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1135-01 (OU3-17S-S-091911 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0714	1.1	ND	1.11	9/20/2011	9/22/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*74 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*94 %*				
Sample ID: PUI1135-02 (OU3-19M-M-091911 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0811	1.0	**2.8**	1	9/22/2011	9/23/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*75 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*90 %*				

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0874 Extracted: 09/24/11										
Blank Analyzed: 09/24/2011 (11I0874-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Kylie Emily
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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0874 Extracted: 09/24/11										
Blank Analyzed: 09/24/2011 (11I0874-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*25.3*		*ug/l*	*25.0*		*101*	*80-130*			
Surrogate: Toluene-d8	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.8*		*ug/l*	*25.0*		*103*	*80-125*			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0874 Extracted: 09/24/11										
LCS Analyzed: 09/24/2011 (11I0874-BS1)										
Acetone	24.7	10	ug/l	25.0		99	10-150			
Benzene	23.3	0.50	ug/l	25.0		93	80-120			
Bromobenzene	23.6	0.50	ug/l	25.0		94	80-120			
Bromochloromethane	21.4	0.50	ug/l	25.0		86	80-125			
Bromodichloromethane	23.2	0.50	ug/l	25.0		93	80-120			
Bromoform	22.8	1.0	ug/l	25.0		91	75-130			
Bromomethane	17.5	1.0	ug/l	25.0		70	55-150			
2-Butanone (MEK)	22.6	2.5	ug/l	25.0		91	40-150			
n-Butylbenzene	25.3	0.50	ug/l	25.0		101	80-130			
sec-Butylbenzene	25.0	0.50	ug/l	25.0		100	80-125			
tert-Butylbenzene	25.2	0.50	ug/l	25.0		101	80-120			
Carbon disulfide	26.8	0.50	ug/l	25.0		107	70-140			
Carbon tetrachloride	26.3	0.50	ug/l	25.0		105	75-130			
Chlorobenzene	24.2	0.50	ug/l	25.0		97	80-120			
Chloroethane	21.4	1.0	ug/l	25.0		86	70-130			
Chloroform	21.8	0.50	ug/l	25.0		87	75-120			
Chloromethane	18.0	1.0	ug/l	25.0		72	60-140			
2-Chlorotoluene	23.6	0.50	ug/l	25.0		94	80-120			
4-Chlorotoluene	24.7	0.50	ug/l	25.0		99	80-120			
Dibromochloromethane	25.2	0.50	ug/l	25.0		101	80-120			
1,2-Dibromo-3-chloropropane	24.8	2.5	ug/l	25.0		99	50-150			
1,2-Dibromoethane (EDB)	23.8	0.50	ug/l	25.0		95	80-120			
Dibromomethane	22.2	0.50	ug/l	25.0		89	75-120			
1,2-Dichlorobenzene	24.6	0.50	ug/l	25.0		99	80-120			
1,3-Dichlorobenzene	24.0	0.50	ug/l	25.0		96	80-120			
1,4-Dichlorobenzene	24.3	0.50	ug/l	25.0		97	80-120			
Dichlorodifluoromethane	21.8	0.50	ug/l	25.0		87	60-150			
1,1-Dichloroethane	22.7	0.50	ug/l	25.0		91	70-125			
1,2-Dichloroethane	22.5	0.50	ug/l	25.0		90	75-130			
1,1-Dichloroethene	23.6	0.50	ug/l	25.0		95	75-125			
cis-1,2-Dichloroethene	20.7	0.50	ug/l	25.0		83	80-120			
trans-1,2-Dichloroethene	22.5	0.50	ug/l	25.0		90	80-120			
1,2-Dichloropropane	22.6	0.50	ug/l	25.0		91	80-120			
1,3-Dichloropropane	22.4	0.50	ug/l	25.0		90	80-120			
2,2-Dichloropropane	27.4	1.0	ug/l	25.0		110	75-130			

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Attention: Jason Hilker

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Report Number: PUI1135

Sampled: 09/19/11
Received: 09/19/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0874 Extracted: 09/24/11										
LCS Analyzed: 09/24/2011 (11I0874-BS1)										
1,1-Dichloropropene	24.0	0.50	ug/l	25.0		96	75-120			
cis-1,3-Dichloropropene	24.8	0.50	ug/l	25.0		99	80-120			
trans-1,3-Dichloropropene	24.5	0.50	ug/l	25.0		98	80-125			
Ethylbenzene	24.1	0.50	ug/l	25.0		96	80-120			
Hexachlorobutadiene	25.9	1.0	ug/l	25.0		104	40-150			
2-Hexanone	25.7	2.5	ug/l	25.0		103	20-150			
Iodomethane	27.3	2.5	ug/l	25.0		109	80-130			
Isopropylbenzene	26.2	0.50	ug/l	25.0		105	80-130			
p-Isopropyltoluene	25.8	0.50	ug/l	25.0		103	80-130			
Methylene Chloride	20.5	1.0	ug/l	25.0		82	70-120			
4-Methyl-2-pentanone (MIBK)	23.4	2.5	ug/l	25.0		93	60-135			
Methyl-tert-butyl Ether (MTBE)	21.1	0.50	ug/l	25.0		85	70-130			
Naphthalene	28.4	2.5	ug/l	25.0		113	40-150			
n-Propylbenzene	25.3	0.50	ug/l	25.0		101	75-130			
Styrene	22.9	0.50	ug/l	25.0		92	80-120			
1,1,1,2-Tetrachloroethane	24.3	0.50	ug/l	25.0		97	75-125			
1,1,2,2-Tetrachloroethane	23.0	0.50	ug/l	25.0		92	80-120			
Tetrachloroethene	25.1	0.50	ug/l	25.0		100	70-130			
Toluene	23.0	0.50	ug/l	25.0		92	80-120			
1,2,3-Trichlorobenzene	27.3	1.0	ug/l	25.0		109	55-150			
1,2,4-Trichlorobenzene	26.8	1.0	ug/l	25.0		107	50-150			
1,1,1-Trichloroethane	24.4	0.50	ug/l	25.0		98	75-125			
1,1,2-Trichloroethane	22.2	0.50	ug/l	25.0		89	80-120			
Trichloroethene	23.4	0.50	ug/l	25.0		94	80-120			
Trichlorofluoromethane	22.2	0.50	ug/l	25.0		89	70-150			
1,2,3-Trichloropropane	23.6	1.0	ug/l	25.0		94	70-130			
1,2,4-Trimethylbenzene	24.5	0.50	ug/l	25.0		98	80-120			
1,3,5-Trimethylbenzene	25.0	0.50	ug/l	25.0		100	80-130			
Vinyl Acetate	24.5	1.0	ug/l	25.0		98	40-150			
Vinyl chloride	21.4	0.50	ug/l	25.0		86	70-130			
Xylenes, Total	45.4	1.5	ug/l	50.0		91	60-140			
Freon 113	25.7	2.0	ug/l	25.0		103	60-140			
Surrogate: Dibromofluoromethane	*25.1*		*ug/l*	*25.0*		*100*	*80-130*			
Surrogate: Toluene-d8	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.1*		*ug/l*	*25.0*		*100*	*80-125*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0874 Extracted: 09/24/11										
LCS Dup Analyzed: 09/24/2011 (11I0874-BSD1)										
Acetone	25.7	10	ug/l	25.0		103	10-150	4	35	
Benzene	23.4	0.50	ug/l	25.0		94	80-120	0.4	15	
Bromobenzene	24.0	0.50	ug/l	25.0		96	80-120	2	15	
Bromochloromethane	22.2	0.50	ug/l	25.0		89	80-125	4	15	
Bromodichloromethane	24.0	0.50	ug/l	25.0		96	80-120	3	15	
Bromoform	23.6	1.0	ug/l	25.0		95	75-130	4	20	
Bromomethane	18.5	1.0	ug/l	25.0		74	55-150	5	20	
2-Butanone (MEK)	24.2	2.5	ug/l	25.0		97	40-150	7	35	
n-Butylbenzene	24.6	0.50	ug/l	25.0		98	80-130	3	15	
sec-Butylbenzene	24.6	0.50	ug/l	25.0		98	80-125	2	15	
tert-Butylbenzene	25.0	0.50	ug/l	25.0		100	80-120	1	15	
Carbon disulfide	26.9	0.50	ug/l	25.0		108	70-140	0.4	15	
Carbon tetrachloride	26.4	0.50	ug/l	25.0		106	75-130	0.5	20	
Chlorobenzene	24.2	0.50	ug/l	25.0		97	80-120	0.08	15	
Chloroethane	21.8	1.0	ug/l	25.0		87	70-130	2	15	
Chloroform	22.1	0.50	ug/l	25.0		88	75-120	1	15	
Chloromethane	18.3	1.0	ug/l	25.0		73	60-140	2	20	
2-Chlorotoluene	23.2	0.50	ug/l	25.0		93	80-120	2	15	
4-Chlorotoluene	24.3	0.50	ug/l	25.0		97	80-120	2	15	
Dibromochloromethane	26.1	0.50	ug/l	25.0		105	80-120	4	15	
1,2-Dibromo-3-chloropropane	26.7	2.5	ug/l	25.0		107	50-150	7	35	
1,2-Dibromoethane (EDB)	24.6	0.50	ug/l	25.0		99	80-120	4	15	
Dibromomethane	23.1	0.50	ug/l	25.0		92	75-120	4	15	
1,2-Dichlorobenzene	24.6	0.50	ug/l	25.0		98	80-120	0.2	15	
1,3-Dichlorobenzene	24.0	0.50	ug/l	25.0		96	80-120	0.2	15	
1,4-Dichlorobenzene	24.2	0.50	ug/l	25.0		97	80-120	0.4	15	
Dichlorodifluoromethane	21.5	0.50	ug/l	25.0		86	60-150	1	30	
1,1-Dichloroethane	22.8	0.50	ug/l	25.0		91	70-125	0.6	15	
1,2-Dichloroethane	23.0	0.50	ug/l	25.0		92	75-130	2	15	
1,1-Dichloroethene	24.0	0.50	ug/l	25.0		96	75-125	1	20	
cis-1,2-Dichloroethene	20.9	0.50	ug/l	25.0		83	80-120	0.9	15	
trans-1,2-Dichloroethene	22.4	0.50	ug/l	25.0		90	80-120	0.3	15	
1,2-Dichloropropane	23.0	0.50	ug/l	25.0		92	80-120	2	15	
1,3-Dichloropropane	23.2	0.50	ug/l	25.0		93	80-120	4	15	
2,2-Dichloropropane	27.3	1.0	ug/l	25.0		109	75-130	0.2	15	

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Project ID: OU3/0096498.013
Report Number: PUI1135

Sampled: 09/19/11
Received: 09/19/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0874 Extracted: 09/24/11										
LCS Dup Analyzed: 09/24/2011 (11I0874-BSD1)										
1,1-Dichloropropene	23.6	0.50	ug/l	25.0		95	75-120	1	15	
cis-1,3-Dichloropropene	25.2	0.50	ug/l	25.0		101	80-120	2	15	
trans-1,3-Dichloropropene	25.3	0.50	ug/l	25.0		101	80-125	3	15	
Ethylbenzene	24.0	0.50	ug/l	25.0		96	80-120	0.5	15	
Hexachlorobutadiene	24.5	1.0	ug/l	25.0		98	40-150	6	35	
2-Hexanone	26.5	2.5	ug/l	25.0		106	20-150	3	35	
Iodomethane	27.4	2.5	ug/l	25.0		110	80-130	0.4	10	
Isopropylbenzene	26.0	0.50	ug/l	25.0		104	80-130	0.9	15	
p-Isopropyltoluene	25.0	0.50	ug/l	25.0		100	80-130	3	15	
Methylene Chloride	20.9	1.0	ug/l	25.0		84	70-120	2	15	
4-Methyl-2-pentanone (MIBK)	24.9	2.5	ug/l	25.0		100	60-135	6	25	
Methyl-tert-butyl Ether (MTBE)	22.0	0.50	ug/l	25.0		88	70-130	4	20	
Naphthalene	28.9	2.5	ug/l	25.0		116	40-150	2	30	
n-Propylbenzene	24.9	0.50	ug/l	25.0		100	75-130	2	15	
Styrene	23.2	0.50	ug/l	25.0		93	80-120	1	15	
1,1,1,2-Tetrachloroethane	24.8	0.50	ug/l	25.0		99	75-125	2	15	
1,1,2,2-Tetrachloroethane	24.2	0.50	ug/l	25.0		97	80-120	5	20	
Tetrachloroethene	25.3	0.50	ug/l	25.0		101	70-130	0.9	20	
Toluene	22.9	0.50	ug/l	25.0		92	80-120	0.2	15	
1,2,3-Trichlorobenzene	27.2	1.0	ug/l	25.0		109	55-150	0.6	35	
1,2,4-Trichlorobenzene	26.5	1.0	ug/l	25.0		106	50-150	1	30	
1,1,1-Trichloroethane	24.4	0.50	ug/l	25.0		98	75-125	0	15	
1,1,2-Trichloroethane	23.0	0.50	ug/l	25.0		92	80-120	4	15	
Trichloroethene	23.4	0.50	ug/l	25.0		94	80-120	0.1	15	
Trichlorofluoromethane	22.4	0.50	ug/l	25.0		90	70-150	1	25	
1,2,3-Trichloropropane	24.9	1.0	ug/l	25.0		100	70-130	5	20	
1,2,4-Trimethylbenzene	24.1	0.50	ug/l	25.0		96	80-120	2	15	
1,3,5-Trimethylbenzene	24.8	0.50	ug/l	25.0		99	80-130	1	15	
Vinyl Acetate	26.6	1.0	ug/l	25.0		106	40-150	8	25	
Vinyl chloride	21.7	0.50	ug/l	25.0		87	70-130	1	20	
Xylenes, Total	45.5	1.5	ug/l	50.0		91	60-140	0.3	15	
Freon 113	26.3	2.0	ug/l	25.0		105	60-140	2	15	
Surrogate: Dibromofluoromethane	*25.3*		*ug/l*	*25.0*		*101*	*80-130*			
Surrogate: Toluene-d8	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.6*		*ug/l*	*25.0*		*102*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3/0096498.013
Report Number: PUI1135

Sampled: 09/19/11
Received: 09/19/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0874 Extracted: 09/24/11										
Matrix Spike Analyzed: 09/24/2011 (11I0874-MS1)					**Source: PUI1135-01**					
Acetone	15.1	10	ug/l	25.0	ND	61	10-150			
Benzene	22.9	0.50	ug/l	25.0	ND	92	70-125			
Bromobenzene	23.4	0.50	ug/l	25.0	ND	93	75-120			
Bromochloromethane	21.7	0.50	ug/l	25.0	ND	87	75-130			
Bromodichloromethane	22.8	0.50	ug/l	25.0	ND	91	75-125			
Bromoform	21.3	1.0	ug/l	25.0	ND	85	65-125			
Bromomethane	18.6	1.0	ug/l	25.0	ND	74	45-150			
2-Butanone (MEK)	18.7	2.5	ug/l	25.0	ND	75	15-150			
n-Butylbenzene	24.5	0.50	ug/l	25.0	ND	98	70-130			
sec-Butylbenzene	24.2	0.50	ug/l	25.0	ND	97	70-125			
tert-Butylbenzene	24.8	0.50	ug/l	25.0	ND	99	70-125			
Carbon disulfide	22.9	0.50	ug/l	25.0	ND	92	65-145			
Carbon tetrachloride	25.4	0.50	ug/l	25.0	ND	102	65-135			
Chlorobenzene	24.0	0.50	ug/l	25.0	ND	96	75-120			
Chloroethane	21.3	1.0	ug/l	25.0	ND	85	65-140			
Chloroform	37.6	0.50	ug/l	25.0	17.7	80	70-130			
Chloromethane	18.2	1.0	ug/l	25.0	ND	73	55-145			
2-Chlorotoluene	22.9	0.50	ug/l	25.0	ND	92	70-125			
4-Chlorotoluene	23.4	0.50	ug/l	25.0	ND	94	70-125			
Dibromochloromethane	24.9	0.50	ug/l	25.0	ND	99	70-130			
1,2-Dibromo-3-chloropropane	24.5	2.5	ug/l	25.0	ND	98	50-150			
1,2-Dibromoethane (EDB)	23.6	0.50	ug/l	25.0	ND	94	70-125			
Dibromomethane	21.8	0.50	ug/l	25.0	ND	87	70-120			
1,2-Dichlorobenzene	23.7	0.50	ug/l	25.0	ND	95	75-120			
1,3-Dichlorobenzene	23.6	0.50	ug/l	25.0	ND	94	75-120			
1,4-Dichlorobenzene	23.5	0.50	ug/l	25.0	ND	94	70-125			
Dichlorodifluoromethane	21.7	0.50	ug/l	25.0	ND	87	60-150			
1,1-Dichloroethane	22.8	0.50	ug/l	25.0	0.520	89	70-130			
1,2-Dichloroethane	22.0	0.50	ug/l	25.0	ND	88	65-140			
1,1-Dichloroethene	23.8	0.50	ug/l	25.0	0.360	94	70-130			
cis-1,2-Dichloroethene	21.1	0.50	ug/l	25.0	0.340	83	70-125			
trans-1,2-Dichloroethene	22.0	0.50	ug/l	25.0	ND	88	75-125			
1,2-Dichloropropane	22.2	0.50	ug/l	25.0	ND	89	75-125			
1,3-Dichloropropane	22.2	0.50	ug/l	25.0	ND	89	70-120			
2,2-Dichloropropane	27.8	1.0	ug/l	25.0	ND	111	65-140			

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Kylie Emily
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Environmental Resources Management Inc.-West
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Attention: Jason Hilker

Project ID: OU3/0096498.013
Report Number: PUI1135

Sampled: 09/19/11
Received: 09/19/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0874 Extracted: 09/24/11										
Matrix Spike Analyzed: 09/24/2011 (11I0874-MS1)					**Source: PUI1135-01**					
1,1-Dichloropropene	23.2	0.50	ug/l	25.0	ND	93	65-130			
cis-1,3-Dichloropropene	23.6	0.50	ug/l	25.0	ND	94	75-130			
trans-1,3-Dichloropropene	23.2	0.50	ug/l	25.0	ND	93	70-130			
Ethylbenzene	23.6	0.50	ug/l	25.0	ND	94	70-125			
Hexachlorobutadiene	25.0	1.0	ug/l	25.0	ND	100	40-150			
2-Hexanone	21.8	2.5	ug/l	25.0	ND	87	20-150			
Iodomethane	27.4	2.5	ug/l	25.0	ND	110	60-150			
Isopropylbenzene	25.4	0.50	ug/l	25.0	ND	102	75-130			
p-Isopropyltoluene	24.4	0.50	ug/l	25.0	ND	98	70-130			
Methylene Chloride	20.6	1.0	ug/l	25.0	ND	82	65-130			
4-Methyl-2-pentanone (MIBK)	22.9	2.5	ug/l	25.0	ND	92	55-135			
Methyl-tert-butyl Ether (MTBE)	21.1	0.50	ug/l	25.0	ND	84	65-140			
Naphthalene	27.8	2.5	ug/l	25.0	ND	111	40-150			
n-Propylbenzene	24.6	0.50	ug/l	25.0	ND	98	70-130			
Styrene	16.6	0.50	ug/l	25.0	ND	66	55-135			
1,1,1,2-Tetrachloroethane	24.5	0.50	ug/l	25.0	ND	98	70-125			
1,1,2,2-Tetrachloroethane	22.8	0.50	ug/l	25.0	ND	91	70-125			
Tetrachloroethene	25.3	0.50	ug/l	25.0	0.310	100	65-130			
Toluene	22.7	0.50	ug/l	25.0	0.620	88	70-125			
1,2,3-Trichlorobenzene	26.7	1.0	ug/l	25.0	ND	107	50-150			
1,2,4-Trichlorobenzene	26.2	1.0	ug/l	25.0	ND	105	50-150			
1,1,1-Trichloroethane	24.2	0.50	ug/l	25.0	ND	97	70-130			
1,1,2-Trichloroethane	21.8	0.50	ug/l	25.0	ND	87	75-125			
Trichloroethene	25.4	0.50	ug/l	25.0	2.91	90	70-125			
Trichlorofluoromethane	22.3	0.50	ug/l	25.0	ND	89	65-150			
1,2,3-Trichloropropane	23.3	1.0	ug/l	25.0	ND	93	70-130			
1,2,4-Trimethylbenzene	19.6	0.50	ug/l	25.0	ND	79	70-125			
1,3,5-Trimethylbenzene	22.1	0.50	ug/l	25.0	ND	89	75-130			
Vinyl Acetate	25.6	1.0	ug/l	25.0	ND	102	40-150			
Vinyl chloride	22.0	0.50	ug/l	25.0	ND	88	60-140			
Xylenes, Total	43.5	1.5	ug/l	50.0	ND	87	75-120			
Freon 113	25.5	2.0	ug/l	25.0	ND	102	65-140			
Surrogate: Dibromofluoromethane	*25.4*		*ug/l*	*25.0*		*102*	*80-130*			
Surrogate: Toluene-d8	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.3*		*ug/l*	*25.0*		*101*	*80-125*			

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Project Manager

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Environmental Resources Management Inc.-West
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Attention: Jason Hilker

Project ID: OU3/0096498.013
Report Number: PUI1135

Sampled: 09/19/11
Received: 09/19/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0874 Extracted: 09/24/11										
Matrix Spike Dup Analyzed: 09/24/2011 (11I0874-MSD1)					**Source: PUI1135-01**					
Acetone	14.2	10	ug/l	25.0	ND	57	10-150	6	35	
Benzene	21.7	0.50	ug/l	25.0	ND	87	70-125	5	25	
Bromobenzene	22.5	0.50	ug/l	25.0	ND	90	75-120	4	20	
Bromochloromethane	20.9	0.50	ug/l	25.0	ND	84	75-130	4	20	
Bromodichloromethane	21.5	0.50	ug/l	25.0	ND	86	75-125	6	20	
Bromoform	19.8	1.0	ug/l	25.0	ND	79	65-125	7	25	
Bromomethane	16.7	1.0	ug/l	25.0	ND	67	45-150	11	35	
2-Butanone (MEK)	18.7	2.5	ug/l	25.0	ND	75	15-150	0.1	30	
n-Butylbenzene	23.4	0.50	ug/l	25.0	ND	94	70-130	5	30	
sec-Butylbenzene	23.1	0.50	ug/l	25.0	ND	92	70-125	5	30	
tert-Butylbenzene	23.5	0.50	ug/l	25.0	ND	94	70-125	6	25	
Carbon disulfide	16.9	0.50	ug/l	25.0	ND	68	65-145	30	25	*R1*
Carbon tetrachloride	23.6	0.50	ug/l	25.0	ND	94	65-135	8	25	
Chlorobenzene	22.6	0.50	ug/l	25.0	ND	90	75-120	6	20	
Chloroethane	19.5	1.0	ug/l	25.0	ND	78	65-140	9	25	
Chloroform	35.6	0.50	ug/l	25.0	17.7	72	70-130	5	20	
Chloromethane	16.8	1.0	ug/l	25.0	ND	67	55-145	8	35	
2-Chlorotoluene	22.0	0.50	ug/l	25.0	ND	88	70-125	4	25	
4-Chlorotoluene	22.4	0.50	ug/l	25.0	ND	90	70-125	5	25	
Dibromochloromethane	23.2	0.50	ug/l	25.0	ND	93	70-130	7	20	
1,2-Dibromo-3-chloropropane	25.3	2.5	ug/l	25.0	ND	101	50-150	3	30	
1,2-Dibromoethane (EDB)	22.8	0.50	ug/l	25.0	ND	91	70-125	3	20	
Dibromomethane	21.4	0.50	ug/l	25.0	ND	86	70-120	2	20	
1,2-Dichlorobenzene	23.2	0.50	ug/l	25.0	ND	93	75-120	2	20	
1,3-Dichlorobenzene	22.5	0.50	ug/l	25.0	ND	90	75-120	5	25	
1,4-Dichlorobenzene	22.9	0.50	ug/l	25.0	ND	92	70-125	2	20	
Dichlorodifluoromethane	19.8	0.50	ug/l	25.0	ND	79	60-150	9	30	
1,1-Dichloroethane	21.5	0.50	ug/l	25.0	0.520	84	70-130	6	20	
1,2-Dichloroethane	21.0	0.50	ug/l	25.0	ND	84	65-140	5	20	
1,1-Dichloroethene	22.2	0.50	ug/l	25.0	0.360	87	70-130	7	25	
cis-1,2-Dichloroethene	19.7	0.50	ug/l	25.0	0.340	77	70-125	7	20	
trans-1,2-Dichloroethene	20.8	0.50	ug/l	25.0	ND	83	75-125	5	25	
1,2-Dichloropropane	21.1	0.50	ug/l	25.0	ND	84	75-125	5	20	
1,3-Dichloropropane	21.5	0.50	ug/l	25.0	ND	86	70-120	3	20	
2,2-Dichloropropane	25.8	1.0	ug/l	25.0	ND	103	65-140	8	25	

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Attention: Jason Hilker

Project ID: OU3/0096498.013
Report Number: PUI1135

Sampled: 09/19/11
Received: 09/19/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0874 Extracted: 09/24/11										
Matrix Spike Dup Analyzed: 09/24/2011 (11I0874-MSD1)					**Source: PUI1135-01**					
1,1-Dichloropropene	21.7	0.50	ug/l	25.0	ND	87	65-130	7	25	
cis-1,3-Dichloropropene	21.6	0.50	ug/l	25.0	ND	86	75-130	9	20	
trans-1,3-Dichloropropene	21.5	0.50	ug/l	25.0	ND	86	70-130	8	20	
Ethylbenzene	22.2	0.50	ug/l	25.0	ND	89	70-125	6	25	
Hexachlorobutadiene	23.7	1.0	ug/l	25.0	ND	95	40-150	5	30	
2-Hexanone	21.7	2.5	ug/l	25.0	ND	87	20-150	0.6	30	
Iodomethane	25.6	2.5	ug/l	25.0	ND	103	60-150	7	30	
Isopropylbenzene	24.3	0.50	ug/l	25.0	ND	97	75-130	5	25	
p-Isopropyltoluene	23.4	0.50	ug/l	25.0	ND	93	70-130	4	30	
Methylene Chloride	19.2	1.0	ug/l	25.0	ND	77	65-130	7	20	
4-Methyl-2-pentanone (MIBK)	22.9	2.5	ug/l	25.0	ND	92	55-135	0.04	25	
Methyl-tert-butyl Ether (MTBE)	20.3	0.50	ug/l	25.0	ND	81	65-140	4	25	
Naphthalene	27.1	2.5	ug/l	25.0	ND	108	40-150	3	30	
n-Propylbenzene	23.5	0.50	ug/l	25.0	ND	94	70-130	4	30	
Styrene	15.9	0.50	ug/l	25.0	ND	64	55-135	4	35	
1,1,1,2-Tetrachloroethane	23.2	0.50	ug/l	25.0	ND	93	70-125	5	20	
1,1,2,2-Tetrachloroethane	23.0	0.50	ug/l	25.0	ND	92	70-125	0.8	25	
Tetrachloroethene	24.2	0.50	ug/l	25.0	0.310	95	65-130	5	25	
Toluene	21.7	0.50	ug/l	25.0	0.620	84	70-125	5	20	
1,2,3-Trichlorobenzene	25.7	1.0	ug/l	25.0	ND	103	50-150	4	35	
1,2,4-Trichlorobenzene	25.2	1.0	ug/l	25.0	ND	101	50-150	4	25	
1,1,1-Trichloroethane	22.8	0.50	ug/l	25.0	ND	91	70-130	6	25	
1,1,2-Trichloroethane	21.3	0.50	ug/l	25.0	ND	85	75-125	2	20	
Trichloroethene	24.1	0.50	ug/l	25.0	2.91	85	70-125	5	25	
Trichlorofluoromethane	20.8	0.50	ug/l	25.0	ND	83	65-150	7	25	
1,2,3-Trichloropropane	23.1	1.0	ug/l	25.0	ND	92	70-130	1	25	
1,2,4-Trimethylbenzene	19.2	0.50	ug/l	25.0	ND	77	70-125	2	30	
1,3,5-Trimethylbenzene	21.4	0.50	ug/l	25.0	ND	86	75-130	3	25	
Vinyl Acetate	24.2	1.0	ug/l	25.0	ND	97	40-150	6	30	
Vinyl chloride	19.4	0.50	ug/l	25.0	ND	78	60-140	12	25	
Xylenes, Total	41.0	1.5	ug/l	50.0	ND	82	75-120	6	15	
Freon 113	23.9	2.0	ug/l	25.0	ND	96	65-140	6	20	
Surrogate: Dibromofluoromethane	*24.9*		*ug/l*	*25.0*		*100*	*80-130*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.0*		*ug/l*	*25.0*		*100*	*80-125*			

TestAmerica Phoenix

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Project Manager

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Attention: Jason Hilker

Project ID: OU3/0096498.013
Report Number: PUI1135

Sampled: 09/19/11
Received: 09/19/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0714 Extracted: 09/20/11										
Blank Analyzed: 09/21/2011 (11I0714-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*14.7*		*ug/l*	*20.0*		*74*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*17.6*		*ug/l*	*20.0*		*88*	*59.9-120*			
LCS Analyzed: 09/21/2011 (11I0714-BS1)										
1,4-Dioxane	20.0	1.0	ug/l	20.0		100	80-120			
Surrogate: 1,4-Dioxane-d8	*15.4*		*ug/l*	*20.0*		*77*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*17.9*		*ug/l*	*20.0*		*89*	*38-125*			
LCS Dup Analyzed: 09/21/2011 (11I0714-BSD1)										
1,4-Dioxane	20.4	1.0	ug/l	20.0		102	80-120	2	25	
Surrogate: 1,4-Dioxane-d8	*14.3*		*ug/l*	*20.0*		*72*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*16.9*		*ug/l*	*20.0*		*84*	*38-125*			
Matrix Spike Analyzed: 09/21/2011 (11I0714-MS1)					**Source: PUI1134-02**					
1,4-Dioxane	24.4	1.1	ug/l	22.2	2.00	101	70-130			
Surrogate: 1,4-Dioxane-d8	*17.7*		*ug/l*	*22.2*		*79*	*36-81*			
Surrogate: Nitrobenzene-d5	*19.6*		*ug/l*	*22.2*		*88*	*59-120*			
Matrix Spike Dup Analyzed: 09/21/2011 (11I0714-MSD1)					**Source: PUI1134-02**					
1,4-Dioxane	25.5	1.2	ug/l	23.5	2.00	100	70-130	5	25	
Surrogate: 1,4-Dioxane-d8	*18.3*		*ug/l*	*23.5*		*78*	*36-81*			
Surrogate: Nitrobenzene-d5	*22.0*		*ug/l*	*23.5*		*94*	*59-120*			
Batch: 11I0811 Extracted: 09/22/11										
Blank Analyzed: 09/23/2011 (11I0811-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*10.3*		*ug/l*	*20.0*		*51*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*13.9*		*ug/l*	*20.0*		*69*	*59.9-120*			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3/0096498.013
Report Number: PUI1135
Sampled: 09/19/11
Received: 09/19/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0811 Extracted: 09/22/11										
LCS Analyzed: 09/23/2011 (11I0811-BS1)										**Q8**
1,4-Dioxane	20.2	1.0	ug/l	20.0		101	80-120			
Surrogate: 1,4-Dioxane-d8	*14.2*		*ug/l*	*20.0*		*71*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*17.9*		*ug/l*	*20.0*		*90*	*38-125*			
LCS Dup Analyzed: 09/23/2011 (11I0811-BSD1)										**Q8**
1,4-Dioxane	19.9	1.0	ug/l	20.0		99	80-120	1	25	
Surrogate: 1,4-Dioxane-d8	*14.8*		*ug/l*	*20.0*		*74*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*18.7*		*ug/l*	*20.0*		*93*	*38-125*			

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Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West	Project ID: OU3/0096498.013	
7272 E. Indian School Rd., Ste. 100		Sampled: 09/19/11
Scottsdale, AZ 85251	Report Number: PUI1135	Received: 09/19/11
Attention: Jason Hilker		

DATA QUALIFIERS AND DEFINITIONS

Q8	Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000.
R1	The RPD/RSD exceeded the method acceptance limit.
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

0

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Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West 7272 E. Indian School Rd., Ste. 100 Scottsdale, AZ 85251 Attention: Jason Hilker	Project ID: OU3/0096498.013 Report Number: PUI1135	Sampled: 09/19/11 Received: 09/19/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

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TestAmerica Phoenix

Kylie Emily
Project Manager

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TAL-0013-550 (10/10)

CHAIN OF CUSTODY FORM

[X] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: ERM
7272 E Indian School Rd, Suite 100
Scottsdale Az 85251

Project/PO Number: OU3
0096498.013

Project Manager: Jason.hilker@erm.com

Phone Number: 480-998-3401

Sampler: Kyle Johnson

Fax Number:

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOC (8260B)	1,4-Dioxane (8270C)								Special Instructions
OU3-17S-S-091911	W	~~2x40ml~~ 3x1L	5	9/19	1319	HCl/-	X	X		PUI1135-01						Level III
OU3-19M-M-091911	W	~~2x40ml~~ 3x1L	5	9/19	1517	HCl/-	X	X				-02				Level III

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)
[signature]	9/19/11 1642			same day ____ 72 hours ____
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours ____ 5 days ____
				48 hours ____ normal X
Relinquished By:	Date/Time:	Received in Lab By: [signature]	Date/Time: 9-19-11 1642	Sample Integrity: (Check) intact X on ice X

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

X2 2.9 / 0.5 °C

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: OU3-New Wells

Sampled: 09/20/11
Received: 09/20/11
Revised: 11/06/11 09:24

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI1212-01	OU3-20S-S-092011	Water
PUI1212-02	GW-R1-1-092011	Water
PUI1212-03	GW-EB1-1-092011	Water
PUI1212-04	GW-L1-1-092011	Water
PUI1212-05	GW-Z1-1-092011	Water

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
S10-Surrogate recovery was above acceptance limits.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: Revised report to reflect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING
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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1212-01 (OU3-20S-S-092011 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0895	10	ND	1	9/25/2011	9/25/2011	
Benzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromochloromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromodichloromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromoform	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Bromomethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
2-Butanone (MEK)	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
n-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
sec-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
tert-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Carbon disulfide	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Carbon tetrachloride	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chloroethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Chloroform	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chloromethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
2-Chlorotoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
4-Chlorotoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dibromochloromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dibromomethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dichlorodifluoromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1-Dichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichloropropane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3-Dichloropropane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
2,2-Dichloropropane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,1-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Ethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Hexachlorobutadiene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1212-01 (OU3-20S-S-092011 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Iodomethane	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Isopropylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
p-Isopropyltoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Methylene Chloride	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Naphthalene	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
n-Propylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Styrene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Tetrachloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Toluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Trichloroethene	EPA 8260B	11I0895	0.50	**1.6**	1	9/25/2011	9/25/2011	
Trichlorofluoromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Vinyl Acetate	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Vinyl chloride	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Xylenes, Total	EPA 8260B	11I0895	1.5	ND	1	9/25/2011	9/25/2011	
Freon 113	EPA 8260B	11I0895	2.0	ND	1	9/25/2011	9/25/2011	
Surrogate: Dibromofluoromethane (80-130%)				*98 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*104 %*				

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1212-02 (GW-R1-1-092011 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0895	10	ND	1	9/25/2011	9/25/2011	
Benzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromochloromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromodichloromethane	EPA 8260B	11I0895	0.50	**3.0**	1	9/25/2011	9/25/2011	
Bromoform	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Bromomethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
2-Butanone (MEK)	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
n-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
sec-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
tert-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Carbon disulfide	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Carbon tetrachloride	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chloroethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Chloroform	EPA 8260B	11I0895	0.50	**5.4**	1	9/25/2011	9/25/2011	
Chloromethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
2-Chlorotoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
4-Chlorotoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dibromochloromethane	EPA 8260B	11I0895	0.50	**1.4**	1	9/25/2011	9/25/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dibromomethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dichlorodifluoromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1-Dichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichloropropane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3-Dichloropropane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
2,2-Dichloropropane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,1-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Ethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Hexachlorobutadiene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1212-02 (GW-R1-1-092011 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Iodomethane	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Isopropylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
p-Isopropyltoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Methylene Chloride	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Naphthalene	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
n-Propylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Styrene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Tetrachloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Toluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Trichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Trichlorofluoromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Vinyl Acetate	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Vinyl chloride	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Xylenes, Total	EPA 8260B	11I0895	1.5	ND	1	9/25/2011	9/25/2011	
Freon 113	EPA 8260B	11I0895	2.0	ND	1	9/25/2011	9/25/2011	
Surrogate: Dibromofluoromethane (80-130%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*104 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1212-03 (GW-EB1-1-092011 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0895	10	ND	1	9/25/2011	9/25/2011	
Benzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromochloromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromodichloromethane	EPA 8260B	11I0895	0.50	**2.5**	1	9/25/2011	9/25/2011	
Bromoform	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Bromomethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
2-Butanone (MEK)	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
n-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
sec-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
tert-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Carbon disulfide	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Carbon tetrachloride	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chloroethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Chloroform	EPA 8260B	11I0895	0.50	**4.2**	1	9/25/2011	9/25/2011	
Chloromethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
2-Chlorotoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
4-Chlorotoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dibromochloromethane	EPA 8260B	11I0895	0.50	**1.2**	1	9/25/2011	9/25/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dibromomethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dichlorodifluoromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1-Dichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichloropropane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3-Dichloropropane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
2,2-Dichloropropane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,1-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Ethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Hexachlorobutadiene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1212-03 (GW-EB1-1-092011 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Iodomethane	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Isopropylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
p-Isopropyltoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Methylene Chloride	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Naphthalene	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
n-Propylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Styrene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Tetrachloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Toluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Trichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Trichlorofluoromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Vinyl Acetate	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Vinyl chloride	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Xylenes, Total	EPA 8260B	11I0895	1.5	ND	1	9/25/2011	9/25/2011	
Freon 113	EPA 8260B	11I0895	2.0	ND	1	9/25/2011	9/25/2011	
Surrogate: Dibromofluoromethane (80-130%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*106 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1212-04 (GW-L1-1-092011 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0895	10	ND	1	9/25/2011	9/25/2011	
Benzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromochloromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromodichloromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromoform	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Bromomethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
2-Butanone (MEK)	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
n-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
sec-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
tert-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Carbon disulfide	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Carbon tetrachloride	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chloroethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Chloroform	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chloromethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
2-Chlorotoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
4-Chlorotoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dibromochloromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dibromomethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dichlorodifluoromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1-Dichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichloropropane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3-Dichloropropane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
2,2-Dichloropropane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,1-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Ethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Hexachlorobutadiene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	

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Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1212-04 (GW-L1-1-092011 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Iodomethane	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Isopropylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
p-Isopropyltoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Methylene Chloride	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Naphthalene	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
n-Propylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Styrene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Tetrachloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Toluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Trichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Trichlorofluoromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Vinyl Acetate	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Vinyl chloride	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Xylenes, Total	EPA 8260B	11I0895	1.5	ND	1	9/25/2011	9/25/2011	
Freon 113	EPA 8260B	11I0895	2.0	ND	1	9/25/2011	9/25/2011	
Surrogate: Dibromofluoromethane (80-130%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*106 %*				

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1212-05 (GW-Z1-1-092011 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0895	10	ND	1	9/25/2011	9/25/2011	
Benzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromochloromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromodichloromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromoform	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Bromomethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
2-Butanone (MEK)	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
n-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
sec-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
tert-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Carbon disulfide	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Carbon tetrachloride	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chloroethane	EPA 8260B	11I0895	1.0	**11**	1	9/25/2011	9/25/2011	
Chloroform	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chloromethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
2-Chlorotoluene	EPA 8260B	11I0895	0.50	**10**	1	9/25/2011	9/25/2011	
4-Chlorotoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dibromochloromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dibromomethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0895	0.50	**19**	1	9/25/2011	9/25/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0895	0.50	**7.8**	1	9/25/2011	9/25/2011	
Dichlorodifluoromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1-Dichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1-Dichloroethene	EPA 8260B	11I0895	0.50	**6.9**	1	9/25/2011	9/25/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichloropropane	EPA 8260B	11I0895	0.50	**24**	1	9/25/2011	9/25/2011	
1,3-Dichloropropane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
2,2-Dichloropropane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,1-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Ethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Hexachlorobutadiene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1212-05 (GW-Z1-1-092011 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0895	2.5	**32**	1	9/25/2011	9/25/2011	
Iodomethane	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Isopropylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
p-Isopropyltoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Methylene Chloride	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0895	2.5	**23**	1	9/25/2011	9/25/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Naphthalene	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
n-Propylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Styrene	EPA 8260B	11I0895	0.50	**12**	1	9/25/2011	9/25/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Tetrachloroethene	EPA 8260B	11I0895	0.50	**25**	1	9/25/2011	9/25/2011	
Toluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0895	1.0	**14**	1	9/25/2011	9/25/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0895	0.50	**3.8**	1	9/25/2011	9/25/2011	
Trichloroethene	EPA 8260B	11I0895	0.50	**17**	1	9/25/2011	9/25/2011	
Trichlorofluoromethane	EPA 8260B	11I0895	0.50	**16**	1	9/25/2011	9/25/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Vinyl Acetate	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Vinyl chloride	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Xylenes, Total	EPA 8260B	11I0895	1.5	ND	1	9/25/2011	9/25/2011	
Freon 113	EPA 8260B	11I0895	2.0	ND	1	9/25/2011	9/25/2011	
Surrogate: Dibromofluoromethane (80-130%)				*103 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*106 %*				

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1212-01 (OU3-20S-S-092011 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0811	1.0	ND	1	9/22/2011	9/23/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*66 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*91 %*				
Sample ID: PUI1212-02 (GW-R1-1-092011 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0811	1.0	ND	1	9/22/2011	9/23/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*56 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*74 %*				
Sample ID: PUI1212-03 (GW-EB1-1-092011 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0811	1.0	ND	1	9/22/2011	9/23/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*77 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*93 %*				

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Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
Blank Analyzed: 09/25/2011 (11I0895-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
Blank Analyzed: 09/25/2011 (11I0895-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*24.1*		*ug/l*	*25.0*		*96*	*80-130*			
Surrogate: Toluene-d8	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.6*		*ug/l*	*25.0*		*102*	*80-125*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
LCS Analyzed: 09/25/2011 (11I0895-BS1)										
Acetone	21.6	10	ug/l	25.0		87	10-150			
Benzene	24.0	0.50	ug/l	25.0		96	80-120			
Bromobenzene	23.7	0.50	ug/l	25.0		95	80-120			
Bromochloromethane	22.6	0.50	ug/l	25.0		90	80-125			
Bromodichloromethane	24.3	0.50	ug/l	25.0		97	80-120			
Bromoform	20.9	1.0	ug/l	25.0		83	75-130			
Bromomethane	19.1	1.0	ug/l	25.0		76	55-150			
2-Butanone (MEK)	23.0	2.5	ug/l	25.0		92	40-150			
n-Butylbenzene	25.1	0.50	ug/l	25.0		100	80-130			
sec-Butylbenzene	24.6	0.50	ug/l	25.0		98	80-125			
tert-Butylbenzene	24.9	0.50	ug/l	25.0		99	80-120			
Carbon disulfide	27.2	0.50	ug/l	25.0		109	70-140			
Carbon tetrachloride	26.8	0.50	ug/l	25.0		107	75-130			
Chlorobenzene	24.1	0.50	ug/l	25.0		97	80-120			
Chloroethane	22.4	1.0	ug/l	25.0		90	70-130			
Chloroform	22.7	0.50	ug/l	25.0		91	75-120			
Chloromethane	19.6	1.0	ug/l	25.0		78	60-140			
2-Chlorotoluene	24.0	0.50	ug/l	25.0		96	80-120			
4-Chlorotoluene	24.8	0.50	ug/l	25.0		99	80-120			
Dibromochloromethane	24.5	0.50	ug/l	25.0		98	80-120			
1,2-Dibromo-3-chloropropane	25.3	2.5	ug/l	25.0		101	50-150			
1,2-Dibromoethane (EDB)	24.3	0.50	ug/l	25.0		97	80-120			
Dibromomethane	23.6	0.50	ug/l	25.0		94	75-120			
1,2-Dichlorobenzene	24.7	0.50	ug/l	25.0		99	80-120			
1,3-Dichlorobenzene	23.8	0.50	ug/l	25.0		95	80-120			
1,4-Dichlorobenzene	24.1	0.50	ug/l	25.0		96	80-120			
Dichlorodifluoromethane	24.0	0.50	ug/l	25.0		96	60-150			
1,1-Dichloroethane	23.6	0.50	ug/l	25.0		94	70-125			
1,2-Dichloroethane	24.0	0.50	ug/l	25.0		96	75-130			
1,1-Dichloroethene	23.9	0.50	ug/l	25.0		96	75-125			
cis-1,2-Dichloroethene	20.9	0.50	ug/l	25.0		84	80-120			
trans-1,2-Dichloroethene	23.2	0.50	ug/l	25.0		93	80-120			
1,2-Dichloropropane	23.8	0.50	ug/l	25.0		95	80-120			
1,3-Dichloropropane	23.6	0.50	ug/l	25.0		94	80-120			
2,2-Dichloropropane	28.6	1.0	ug/l	25.0		114	75-130			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
LCS Analyzed: 09/25/2011 (11I0895-BS1)										
1,1-Dichloropropene	24.5	0.50	ug/l	25.0		98	75-120			
cis-1,3-Dichloropropene	25.1	0.50	ug/l	25.0		100	80-120			
trans-1,3-Dichloropropene	25.7	0.50	ug/l	25.0		103	80-125			
Ethylbenzene	24.0	0.50	ug/l	25.0		96	80-120			
Hexachlorobutadiene	24.6	1.0	ug/l	25.0		98	40-150			
2-Hexanone	24.6	2.5	ug/l	25.0		99	20-150			
Iodomethane	27.4	2.5	ug/l	25.0		110	80-130			
Isopropylbenzene	25.9	0.50	ug/l	25.0		104	80-130			
p-Isopropyltoluene	25.0	0.50	ug/l	25.0		100	80-130			
Methylene Chloride	21.4	1.0	ug/l	25.0		85	70-120			
4-Methyl-2-pentanone (MIBK)	26.0	2.5	ug/l	25.0		104	60-135			
Methyl-tert-butyl Ether (MTBE)	22.0	0.50	ug/l	25.0		88	70-130			
Naphthalene	28.7	2.5	ug/l	25.0		115	40-150			
n-Propylbenzene	25.6	0.50	ug/l	25.0		102	75-130			
Styrene	22.6	0.50	ug/l	25.0		90	80-120			
1,1,1,2-Tetrachloroethane	24.2	0.50	ug/l	25.0		97	75-125			
1,1,2,2-Tetrachloroethane	24.6	0.50	ug/l	25.0		98	80-120			
Tetrachloroethene	24.6	0.50	ug/l	25.0		98	70-130			
Toluene	23.4	0.50	ug/l	25.0		94	80-120			
1,2,3-Trichlorobenzene	27.5	1.0	ug/l	25.0		110	55-150			
1,2,4-Trichlorobenzene	26.8	1.0	ug/l	25.0		107	50-150			
1,1,1-Trichloroethane	25.0	0.50	ug/l	25.0		100	75-125			
1,1,2-Trichloroethane	23.7	0.50	ug/l	25.0		95	80-120			
Trichloroethene	24.0	0.50	ug/l	25.0		96	80-120			
Trichlorofluoromethane	23.6	0.50	ug/l	25.0		94	70-150			
1,2,3-Trichloropropane	24.5	1.0	ug/l	25.0		98	70-130			
1,2,4-Trimethylbenzene	24.4	0.50	ug/l	25.0		98	80-120			
1,3,5-Trimethylbenzene	24.9	0.50	ug/l	25.0		100	80-130			
Vinyl Acetate	29.0	1.0	ug/l	25.0		116	40-150			
Vinyl chloride	23.6	0.50	ug/l	25.0		95	70-130			
Xylenes, Total	44.3	1.5	ug/l	50.0		89	60-140			
Freon 113	25.9	2.0	ug/l	25.0		104	60-140			
Surrogate: Dibromofluoromethane	*25.3*		*ug/l*	*25.0*		*101*	*80-130*			
Surrogate: Toluene-d8	*26.1*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.6*		*ug/l*	*25.0*		*103*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
LCS Dup Analyzed: 09/25/2011 (11I0895-BSD1)										
Acetone	19.1	10	ug/l	25.0		76	10-150	13	35	
Benzene	23.5	0.50	ug/l	25.0		94	80-120	2	15	
Bromobenzene	22.9	0.50	ug/l	25.0		92	80-120	3	15	
Bromochloromethane	22.3	0.50	ug/l	25.0		89	80-125	1	15	
Bromodichloromethane	23.5	0.50	ug/l	25.0		94	80-120	3	15	
Bromoform	20.0	1.0	ug/l	25.0		80	75-130	4	20	
Bromomethane	18.6	1.0	ug/l	25.0		74	55-150	3	20	
2-Butanone (MEK)	21.3	2.5	ug/l	25.0		85	40-150	8	35	
n-Butylbenzene	24.2	0.50	ug/l	25.0		97	80-130	4	15	
sec-Butylbenzene	23.9	0.50	ug/l	25.0		96	80-125	3	15	
tert-Butylbenzene	24.0	0.50	ug/l	25.0		96	80-120	4	15	
Carbon disulfide	26.6	0.50	ug/l	25.0		106	70-140	2	15	
Carbon tetrachloride	26.0	0.50	ug/l	25.0		104	75-130	3	20	
Chlorobenzene	23.2	0.50	ug/l	25.0		93	80-120	4	15	
Chloroethane	21.6	1.0	ug/l	25.0		86	70-130	4	15	
Chloroform	22.6	0.50	ug/l	25.0		91	75-120	0.4	15	
Chloromethane	19.2	1.0	ug/l	25.0		77	60-140	2	20	
2-Chlorotoluene	22.9	0.50	ug/l	25.0		91	80-120	5	15	
4-Chlorotoluene	24.0	0.50	ug/l	25.0		96	80-120	3	15	
Dibromochloromethane	23.5	0.50	ug/l	25.0		94	80-120	4	15	
1,2-Dibromo-3-chloropropane	23.4	2.5	ug/l	25.0		93	50-150	8	35	
1,2-Dibromoethane (EDB)	23.0	0.50	ug/l	25.0		92	80-120	6	15	
Dibromomethane	22.5	0.50	ug/l	25.0		90	75-120	5	15	
1,2-Dichlorobenzene	24.0	0.50	ug/l	25.0		96	80-120	3	15	
1,3-Dichlorobenzene	22.9	0.50	ug/l	25.0		92	80-120	4	15	
1,4-Dichlorobenzene	23.6	0.50	ug/l	25.0		95	80-120	2	15	
Dichlorodifluoromethane	23.1	0.50	ug/l	25.0		92	60-150	4	30	
1,1-Dichloroethane	23.5	0.50	ug/l	25.0		94	70-125	0.7	15	
1,2-Dichloroethane	23.4	0.50	ug/l	25.0		94	75-130	2	15	
1,1-Dichloroethene	24.0	0.50	ug/l	25.0		96	75-125	0.3	20	
cis-1,2-Dichloroethene	20.6	0.50	ug/l	25.0		83	80-120	1	15	
trans-1,2-Dichloroethene	22.9	0.50	ug/l	25.0		92	80-120	1	15	
1,2-Dichloropropane	23.1	0.50	ug/l	25.0		92	80-120	3	15	
1,3-Dichloropropane	22.1	0.50	ug/l	25.0		88	80-120	7	15	
2,2-Dichloropropane	28.9	1.0	ug/l	25.0		116	75-130	1	15	

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
LCS Dup Analyzed: 09/25/2011 (11I0895-BSD1)										
1,1-Dichloropropene	23.9	0.50	ug/l	25.0		96	75-120	2	15	
cis-1,3-Dichloropropene	24.2	0.50	ug/l	25.0		97	80-120	4	15	
trans-1,3-Dichloropropene	24.3	0.50	ug/l	25.0		97	80-125	5	15	
Ethylbenzene	23.0	0.50	ug/l	25.0		92	80-120	4	15	
Hexachlorobutadiene	24.5	1.0	ug/l	25.0		98	40-150	0.5	35	
2-Hexanone	22.6	2.5	ug/l	25.0		90	20-150	9	35	
Iodomethane	27.2	2.5	ug/l	25.0		109	80-130	1	10	
Isopropylbenzene	25.2	0.50	ug/l	25.0		101	80-130	3	15	
p-Isopropyltoluene	24.4	0.50	ug/l	25.0		97	80-130	2	15	
Methylene Chloride	21.2	1.0	ug/l	25.0		85	70-120	0.5	15	
4-Methyl-2-pentanone (MIBK)	24.0	2.5	ug/l	25.0		96	60-135	8	25	
Methyl-tert-butyl Ether (MTBE)	22.0	0.50	ug/l	25.0		88	70-130	0.2	20	
Naphthalene	27.9	2.5	ug/l	25.0		112	40-150	3	30	
n-Propylbenzene	24.4	0.50	ug/l	25.0		97	75-130	5	15	
Styrene	21.7	0.50	ug/l	25.0		87	80-120	4	15	
1,1,1,2-Tetrachloroethane	23.6	0.50	ug/l	25.0		94	75-125	3	15	
1,1,2,2-Tetrachloroethane	23.2	0.50	ug/l	25.0		93	80-120	6	20	
Tetrachloroethene	24.2	0.50	ug/l	25.0		97	70-130	1	20	
Toluene	22.8	0.50	ug/l	25.0		91	80-120	3	15	
1,2,3-Trichlorobenzene	26.9	1.0	ug/l	25.0		108	55-150	2	35	
1,2,4-Trichlorobenzene	26.0	1.0	ug/l	25.0		104	50-150	3	30	
1,1,1-Trichloroethane	24.5	0.50	ug/l	25.0		98	75-125	2	15	
1,1,2-Trichloroethane	22.2	0.50	ug/l	25.0		89	80-120	7	15	
Trichloroethene	23.4	0.50	ug/l	25.0		94	80-120	3	15	
Trichlorofluoromethane	22.7	0.50	ug/l	25.0		91	70-150	4	25	
1,2,3-Trichloropropane	23.1	1.0	ug/l	25.0		92	70-130	6	20	
1,2,4-Trimethylbenzene	23.6	0.50	ug/l	25.0		94	80-120	3	15	
1,3,5-Trimethylbenzene	23.8	0.50	ug/l	25.0		95	80-130	4	15	
Vinyl Acetate	28.2	1.0	ug/l	25.0		113	40-150	3	25	
Vinyl chloride	21.5	0.50	ug/l	25.0		86	70-130	10	20	
Xylenes, Total	42.8	1.5	ug/l	50.0		86	60-140	3	15	
Freon 113	26.0	2.0	ug/l	25.0		104	60-140	0.4	15	
Surrogate: Dibromofluoromethane	*25.5*		*ug/l*	*25.0*		*102*	*80-130*			
Surrogate: Toluene-d8	*26.3*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*		*ug/l*	*25.0*		*99*	*80-125*			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
Matrix Spike Analyzed: 09/25/2011 (11I0895-MS1)					**Source: PUI1152-04**					
Acetone	391	100	ug/l	250	222	67	10-150			
Benzene	285	5.0	ug/l	250	49.7	94	70-125			
Bromobenzene	243	5.0	ug/l	250	ND	97	75-120			
Bromochloromethane	233	5.0	ug/l	250	ND	93	75-130			
Bromodichloromethane	217	5.0	ug/l	250	ND	87	75-125			
Bromoform	181	10	ug/l	250	ND	73	65-125			
Bromomethane	187	10	ug/l	250	ND	75	45-150			
2-Butanone (MEK)	313	25	ug/l	250	103	84	15-150			
n-Butylbenzene	252	5.0	ug/l	250	3.10	99	70-130			
sec-Butylbenzene	250	5.0	ug/l	250	ND	100	70-125			
tert-Butylbenzene	254	5.0	ug/l	250	ND	102	70-125			
Carbon disulfide	182	5.0	ug/l	250	ND	73	65-145			
Carbon tetrachloride	254	5.0	ug/l	250	ND	102	65-135			
Chlorobenzene	251	5.0	ug/l	250	ND	100	75-120			
Chloroethane	222	10	ug/l	250	ND	89	65-140			
Chloroform	221	5.0	ug/l	250	ND	88	70-130			
Chloromethane	178	10	ug/l	250	ND	71	55-145			
2-Chlorotoluene	236	5.0	ug/l	250	1.90	93	70-125			
4-Chlorotoluene	241	5.0	ug/l	250	ND	96	70-125			
Dibromochloromethane	230	5.0	ug/l	250	ND	92	70-130			
1,2-Dibromo-3-chloropropane	231	25	ug/l	250	ND	92	50-150			
1,2-Dibromoethane (EDB)	242	5.0	ug/l	250	ND	97	70-125			
Dibromomethane	219	5.0	ug/l	250	ND	88	70-120			
1,2-Dichlorobenzene	248	5.0	ug/l	250	ND	99	75-120			
1,3-Dichlorobenzene	249	5.0	ug/l	250	ND	100	75-120			
1,4-Dichlorobenzene	250	5.0	ug/l	250	ND	100	70-125			
Dichlorodifluoromethane	196	5.0	ug/l	250	ND	78	60-150			
1,1-Dichloroethane	231	5.0	ug/l	250	ND	92	70-130			
1,2-Dichloroethane	221	5.0	ug/l	250	ND	88	65-140			
1,1-Dichloroethene	249	5.0	ug/l	250	ND	99	70-130			
cis-1,2-Dichloroethene	214	5.0	ug/l	250	ND	86	70-125			
trans-1,2-Dichloroethene	229	5.0	ug/l	250	ND	92	75-125			
1,2-Dichloropropane	226	5.0	ug/l	250	ND	90	75-125			
1,3-Dichloropropane	223	5.0	ug/l	250	ND	89	70-120			
2,2-Dichloropropane	280	10	ug/l	250	ND	112	65-140			

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7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
Matrix Spike Analyzed: 09/25/2011 (11I0895-MS1)					**Source: PUI1152-04**					
1,1-Dichloropropene	236	5.0	ug/l	250	ND	94	65-130			
cis-1,3-Dichloropropene	211	5.0	ug/l	250	ND	84	75-130			
trans-1,3-Dichloropropene	208	5.0	ug/l	250	ND	83	70-130			
Ethylbenzene	255	5.0	ug/l	250	11.7	97	70-125			
Hexachlorobutadiene	262	10	ug/l	250	ND	105	40-150			
2-Hexanone	234	25	ug/l	250	17.3	87	20-150			
Iodomethane	287	25	ug/l	250	ND	115	60-150			
Isopropylbenzene	263	5.0	ug/l	250	ND	105	75-130			
p-Isopropyltoluene	262	5.0	ug/l	250	ND	105	70-130			
Methylene Chloride	212	10	ug/l	250	ND	85	65-130			
4-Methyl-2-pentanone (MIBK)	234	25	ug/l	250	ND	94	55-135			
Methyl-tert-butyl Ether (MTBE)	373	5.0	ug/l	250	166	83	65-140			
Naphthalene	332	25	ug/l	250	28.2	121	40-150			
n-Propylbenzene	254	5.0	ug/l	250	2.10	101	70-130			
Styrene	233	5.0	ug/l	250	ND	93	55-135			
1,1,1,2-Tetrachloroethane	254	5.0	ug/l	250	ND	102	70-125			
1,1,2,2-Tetrachloroethane	221	5.0	ug/l	250	ND	88	70-125			
Tetrachloroethene	265	5.0	ug/l	250	ND	106	65-130			
Toluene	288	5.0	ug/l	250	55.9	93	70-125			
1,2,3-Trichlorobenzene	271	10	ug/l	250	ND	108	50-150			
1,2,4-Trichlorobenzene	265	10	ug/l	250	ND	106	50-150			
1,1,1-Trichloroethane	246	5.0	ug/l	250	ND	98	70-130			
1,1,2-Trichloroethane	221	5.0	ug/l	250	ND	88	75-125			
Trichloroethene	236	5.0	ug/l	250	ND	94	70-125			
Trichlorofluoromethane	222	5.0	ug/l	250	ND	89	65-150			
1,2,3-Trichloropropane	231	10	ug/l	250	ND	92	70-130			
1,2,4-Trimethylbenzene	267	5.0	ug/l	250	23.4	98	70-125			
1,3,5-Trimethylbenzene	259	5.0	ug/l	250	6.50	101	75-130			
Vinyl Acetate	262	10	ug/l	250	ND	105	40-150			
Vinyl chloride	225	5.0	ug/l	250	ND	90	60-140			
Xylenes, Total	539	15	ug/l	500	73.2	93	75-120			
Freon 113	268	20	ug/l	250	ND	107	65-140			
Surrogate: Dibromofluoromethane	*24.6*		*ug/l*	*25.0*		*99*	*80-130*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.0*		*ug/l*	*25.0*		*100*	*80-125*			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
Matrix Spike Dup Analyzed: 09/25/2011 (11I0895-MSD1)					**Source: PUI1152-04**					
Acetone	339	100	ug/l	250	222	47	10-150	14	35	
Benzene	267	5.0	ug/l	250	49.7	87	70-125	7	25	
Bromobenzene	231	5.0	ug/l	250	ND	92	75-120	5	20	
Bromochloromethane	215	5.0	ug/l	250	ND	86	75-130	8	20	
Bromodichloromethane	206	5.0	ug/l	250	ND	83	75-125	5	20	
Bromoform	158	10	ug/l	250	ND	63	65-125	14	25	*M2*
Bromomethane	178	10	ug/l	250	ND	71	45-150	5	35	
2-Butanone (MEK)	286	25	ug/l	250	103	73	15-150	9	30	
n-Butylbenzene	237	5.0	ug/l	250	3.10	94	70-130	6	30	
sec-Butylbenzene	238	5.0	ug/l	250	ND	95	70-125	5	30	
tert-Butylbenzene	242	5.0	ug/l	250	ND	97	70-125	5	25	
Carbon disulfide	169	5.0	ug/l	250	ND	67	65-145	8	25	
Carbon tetrachloride	240	5.0	ug/l	250	ND	96	65-135	6	25	
Chlorobenzene	233	5.0	ug/l	250	ND	93	75-120	7	20	
Chloroethane	206	10	ug/l	250	ND	82	65-140	8	25	
Chloroform	203	5.0	ug/l	250	ND	81	70-130	8	20	
Chloromethane	174	10	ug/l	250	ND	70	55-145	2	35	
2-Chlorotoluene	218	5.0	ug/l	250	1.90	86	70-125	8	25	
4-Chlorotoluene	227	5.0	ug/l	250	ND	91	70-125	6	25	
Dibromochloromethane	204	5.0	ug/l	250	ND	82	70-130	12	20	
1,2-Dibromo-3-chloropropane	211	25	ug/l	250	ND	84	50-150	9	30	
1,2-Dibromoethane (EDB)	224	5.0	ug/l	250	ND	90	70-125	8	20	
Dibromomethane	210	5.0	ug/l	250	ND	84	70-120	4	20	
1,2-Dichlorobenzene	238	5.0	ug/l	250	ND	95	75-120	4	20	
1,3-Dichlorobenzene	236	5.0	ug/l	250	ND	94	75-120	6	25	
1,4-Dichlorobenzene	238	5.0	ug/l	250	ND	95	70-125	5	20	
Dichlorodifluoromethane	197	5.0	ug/l	250	ND	79	60-150	0.6	30	
1,1-Dichloroethane	213	5.0	ug/l	250	ND	85	70-130	8	20	
1,2-Dichloroethane	204	5.0	ug/l	250	ND	82	65-140	8	20	
1,1-Dichloroethene	228	5.0	ug/l	250	ND	91	70-130	8	25	
cis-1,2-Dichloroethene	198	5.0	ug/l	250	ND	79	70-125	8	20	
trans-1,2-Dichloroethene	220	5.0	ug/l	250	ND	88	75-125	4	25	
1,2-Dichloropropane	213	5.0	ug/l	250	ND	85	75-125	6	20	
1,3-Dichloropropane	210	5.0	ug/l	250	ND	84	70-120	6	20	
2,2-Dichloropropane	274	10	ug/l	250	ND	110	65-140	2	25	

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1212

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
Matrix Spike Dup Analyzed: 09/25/2011 (11I0895-MSD1)					**Source: PUI1152-04**					
1,1-Dichloropropene	229	5.0	ug/l	250	ND	92	65-130	3	25	
cis-1,3-Dichloropropene	199	5.0	ug/l	250	ND	79	75-130	6	20	
trans-1,3-Dichloropropene	196	5.0	ug/l	250	ND	79	70-130	6	20	
Ethylbenzene	237	5.0	ug/l	250	11.7	90	70-125	7	25	
Hexachlorobutadiene	246	10	ug/l	250	ND	99	40-150	6	30	
2-Hexanone	218	25	ug/l	250	17.3	80	20-150	7	30	
Iodomethane	272	25	ug/l	250	ND	109	60-150	6	30	
Isopropylbenzene	249	5.0	ug/l	250	ND	100	75-130	5	25	
p-Isopropyltoluene	246	5.0	ug/l	250	ND	98	70-130	6	30	
Methylene Chloride	197	10	ug/l	250	ND	79	65-130	7	20	
4-Methyl-2-pentanone (MIBK)	223	25	ug/l	250	ND	89	55-135	5	25	
Methyl-tert-butyl Ether (MTBE)	362	5.0	ug/l	250	166	79	65-140	3	25	
Naphthalene	301	25	ug/l	250	28.2	109	40-150	10	30	
n-Propylbenzene	238	5.0	ug/l	250	2.10	94	70-130	6	30	
Styrene	218	5.0	ug/l	250	ND	87	55-135	7	35	
1,1,1,2-Tetrachloroethane	238	5.0	ug/l	250	ND	95	70-125	7	20	
1,1,2,2-Tetrachloroethane	215	5.0	ug/l	250	ND	86	70-125	3	25	
Tetrachloroethene	247	5.0	ug/l	250	ND	99	65-130	7	25	
Toluene	269	5.0	ug/l	250	55.9	85	70-125	7	20	
1,2,3-Trichlorobenzene	260	10	ug/l	250	ND	104	50-150	4	35	
1,2,4-Trichlorobenzene	253	10	ug/l	250	ND	101	50-150	4	25	
1,1,1-Trichloroethane	230	5.0	ug/l	250	ND	92	70-130	7	25	
1,1,2-Trichloroethane	212	5.0	ug/l	250	ND	85	75-125	4	20	
Trichloroethene	222	5.0	ug/l	250	ND	89	70-125	6	25	
Trichlorofluoromethane	205	5.0	ug/l	250	ND	82	65-150	8	25	
1,2,3-Trichloropropane	224	10	ug/l	250	ND	89	70-130	3	25	
1,2,4-Trimethylbenzene	253	5.0	ug/l	250	23.4	92	70-125	6	30	
1,3,5-Trimethylbenzene	243	5.0	ug/l	250	6.50	95	75-130	6	25	
Vinyl Acetate	249	10	ug/l	250	ND	100	40-150	5	30	
Vinyl chloride	215	5.0	ug/l	250	ND	86	60-140	4	25	
Xylenes, Total	496	15	ug/l	500	73.2	84	75-120	8	15	
Freon 113	247	20	ug/l	250	ND	99	65-140	8	20	
Surrogate: Dibromofluoromethane	*23.9*		*ug/l*	*25.0*		*96*	*80-130*			
Surrogate: Toluene-d8	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*		*ug/l*	*25.0*		*97*	*80-125*			

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Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West	Project ID: OU3-New Wells	
7272 E. Indian School Rd., Ste. 100		Sampled: 09/20/11
Scottsdale, AZ 85251	Report Number: PUI1212	Received: 09/20/11
Attention: Jason Hilker		

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0811 Extracted: 09/22/11										
Blank Analyzed: 09/23/2011 (11I0811-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*10.3*		*ug/l*	*20.0*		*51*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*13.9*		*ug/l*	*20.0*		*69*	*59.9-120*			
LCS Analyzed: 09/23/2011 (11I0811-BS1)										**Q8**
1,4-Dioxane	20.2	1.0	ug/l	20.0		101	80-120			
Surrogate: 1,4-Dioxane-d8	*14.2*		*ug/l*	*20.0*		*71*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*17.9*		*ug/l*	*20.0*		*90*	*38-125*			
LCS Dup Analyzed: 09/23/2011 (11I0811-BSD1)										**Q8**
1,4-Dioxane	19.9	1.0	ug/l	20.0		99	80-120	1	25	
Surrogate: 1,4-Dioxane-d8	*14.8*		*ug/l*	*20.0*		*74*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*18.7*		*ug/l*	*20.0*		*93*	*38-125*			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West	Project ID: OU3-New Wells	
7272 E. Indian School Rd., Ste. 100		Sampled: 09/20/11
Scottsdale, AZ 85251	Report Number: PUI1212	Received: 09/20/11
Attention: Jason Hilker		

DATA QUALIFIERS AND DEFINITIONS

M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
Q8	Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000.
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Project Manager

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Environmental Resources Management Inc.-West	Project ID: OU3-New Wells	
7272 E. Indian School Rd., Ste. 100		Sampled: 09/20/11
Scottsdale, AZ 85251	Report Number: PUI1212	Received: 09/20/11
Attention: Jason Hilker		

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

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Kylie Emily
Project Manager

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PVI1212

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

CHAIN OF CUSTODY FORM

[ ] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page _____ of _____

Client Name/Address: ERM
7272 E Indian School Rd Ste 100
Scottsdale AZ, 85251

Project/PO Number: 003-New Wells
0096498.013

Project Manager: Jason.Heller@ERM.com

Phone Number:

Sampler: Kyle Johnson

Fax Number:

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOC (8260B)	1,4-Dioxane (8270C)								Special Instructions
003-205-S-092011	WT	40mL / 1L	3 / 2	9/20/11	1209	HCl / —	X	X								-01
GW-R1-1-092011	WT	40mL / 1L	3 / 1	9/20/11	1210	HCl / —	X	X								-02
GW-EB1-1-092011	WT	40mL / 1L	3 / 2	9/20/11	1210	HCl / —	X	X								-03
GW-L1-1-092011	WT	40mL	3	9/20/11	—	—	X	—		TRIP BLANK						-04
GW-Z1-1-092011	WT	40mL	3	9/20/11	1435	HCl	X									-05

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)
[signature]	9/20/11 1530			same day ____ 72 hours ____
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours ____ 5 days ____
				48 hours ____ normal ✓
Relinquished By:	Date/Time:	Received in Lab By: [signature]	Date/Time: 9/20/11 1530	Sample Integrity: (Check) Intact ✓ on ice ✓ 1.4°C

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: OU3-New Wells

Sampled: 09/20/11
Received: 09/20/11
Revised: 11/06/11 09:32

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUI1213-01	OU3-20M-M-092011	Water

SAMPLE RECEIPT:	Samples were received intact, at 1°C, on ice and with chain of custody documentation.
HOLDING TIMES:	All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers. S10-Surrogate recovery was above acceptance limits.
COMMENTS:	No significant observations were made.
SUBCONTRACTED:	No analyses were subcontracted to an outside laboratory.
ADDITIONAL INFORMATION:	Revised report to reflect QAPP limits.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING
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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1213

Sampled: 09/20/11
Received: 09/20/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1213-01 (OU3-20M-M-092011 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11I0895	10	ND	1	9/25/2011	9/25/2011	
Benzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromochloromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromodichloromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Bromoform	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Bromomethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
2-Butanone (MEK)	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
n-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
sec-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
tert-Butylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Carbon disulfide	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Carbon tetrachloride	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chloroethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Chloroform	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Chloromethane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
2-Chlorotoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
4-Chlorotoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dibromochloromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dibromomethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,4-Dichlorobenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Dichlorodifluoromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1-Dichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
cis-1,2-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
trans-1,2-Dichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2-Dichloropropane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3-Dichloropropane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
2,2-Dichloropropane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,1-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
cis-1,3-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
trans-1,3-Dichloropropene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Ethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Hexachlorobutadiene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1213

Sampled: 09/20/11
Received: 09/20/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1213-01 (OU3-20M-M-092011 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Iodomethane	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Isopropylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
p-Isopropyltoluene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Methylene Chloride	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Naphthalene	EPA 8260B	11I0895	2.5	ND	1	9/25/2011	9/25/2011	
n-Propylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Styrene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Tetrachloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Toluene	EPA 8260B	11I0895	0.50	**0.62**	1	9/25/2011	9/25/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,1,1-Trichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,1,2-Trichloroethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Trichloroethene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Trichlorofluoromethane	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,2,3-Trichloropropane	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Vinyl Acetate	EPA 8260B	11I0895	1.0	ND	1	9/25/2011	9/25/2011	
Vinyl chloride	EPA 8260B	11I0895	0.50	ND	1	9/25/2011	9/25/2011	
Xylenes, Total	EPA 8260B	11I0895	1.5	ND	1	9/25/2011	9/25/2011	
Freon 113	EPA 8260B	11I0895	2.0	ND	1	9/25/2011	9/25/2011	
Surrogate: Dibromofluoromethane (80-130%)				*103 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Surrogate: 4-Bromofluorobenzene (80-125%)				*107 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1213

Sampled: 09/20/11
Received: 09/20/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUI1213-01RE1 (OU3-20M-M-092011 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	EPA 8270C	11I0953	1.1	ND	1.11	9/27/2011	9/28/2011	
Surrogate: 1,4-Dioxane-d8 (38.6-88.3%)				*73 %*				
Surrogate: Nitrobenzene-d5 (59.9-120%)				*87 %*				

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Project ID: OU3-New Wells
Report Number: PUI1213

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
Blank Analyzed: 09/25/2011 (11I0895-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
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Attention: Jason Hilker .

Project ID: OU3-New Wells
Report Number: PUI1213

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
Blank Analyzed: 09/25/2011 (11I0895-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*24.1*		*ug/l*	*25.0*		*96*	*80-130*			
Surrogate: Toluene-d8	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.6*		*ug/l*	*25.0*		*102*	*80-125*			

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Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1213

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
LCS Analyzed: 09/25/2011 (11I0895-BS1)										
Acetone	21.6	10	ug/l	25.0		87	10-150			
Benzene	24.0	0.50	ug/l	25.0		96	80-120			
Bromobenzene	23.7	0.50	ug/l	25.0		95	80-120			
Bromochloromethane	22.6	0.50	ug/l	25.0		90	80-125			
Bromodichloromethane	24.3	0.50	ug/l	25.0		97	80-120			
Bromoform	20.9	1.0	ug/l	25.0		83	75-130			
Bromomethane	19.1	1.0	ug/l	25.0		76	55-150			
2-Butanone (MEK)	23.0	2.5	ug/l	25.0		92	40-150			
n-Butylbenzene	25.1	0.50	ug/l	25.0		100	80-130			
sec-Butylbenzene	24.6	0.50	ug/l	25.0		98	80-125			
tert-Butylbenzene	24.9	0.50	ug/l	25.0		99	80-120			
Carbon disulfide	27.2	0.50	ug/l	25.0		109	70-140			
Carbon tetrachloride	26.8	0.50	ug/l	25.0		107	75-130			
Chlorobenzene	24.1	0.50	ug/l	25.0		97	80-120			
Chloroethane	22.4	1.0	ug/l	25.0		90	70-130			
Chloroform	22.7	0.50	ug/l	25.0		91	75-120			
Chloromethane	19.6	1.0	ug/l	25.0		78	60-140			
2-Chlorotoluene	24.0	0.50	ug/l	25.0		96	80-120			
4-Chlorotoluene	24.8	0.50	ug/l	25.0		99	80-120			
Dibromochloromethane	24.5	0.50	ug/l	25.0		98	80-120			
1,2-Dibromo-3-chloropropane	25.3	2.5	ug/l	25.0		101	50-150			
1,2-Dibromoethane (EDB)	24.3	0.50	ug/l	25.0		97	80-120			
Dibromomethane	23.6	0.50	ug/l	25.0		94	75-120			
1,2-Dichlorobenzene	24.7	0.50	ug/l	25.0		99	80-120			
1,3-Dichlorobenzene	23.8	0.50	ug/l	25.0		95	80-120			
1,4-Dichlorobenzene	24.1	0.50	ug/l	25.0		96	80-120			
Dichlorodifluoromethane	24.0	0.50	ug/l	25.0		96	60-150			
1,1-Dichloroethane	23.6	0.50	ug/l	25.0		94	70-125			
1,2-Dichloroethane	24.0	0.50	ug/l	25.0		96	75-130			
1,1-Dichloroethene	23.9	0.50	ug/l	25.0		96	75-125			
cis-1,2-Dichloroethene	20.9	0.50	ug/l	25.0		84	80-120			
trans-1,2-Dichloroethene	23.2	0.50	ug/l	25.0		93	80-120			
1,2-Dichloropropane	23.8	0.50	ug/l	25.0		95	80-120			
1,3-Dichloropropane	23.6	0.50	ug/l	25.0		94	80-120			
2,2-Dichloropropane	28.6	1.0	ug/l	25.0		114	75-130			

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Kylie Emily
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Environmental Resources Management Inc.-West
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Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1213

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
LCS Analyzed: 09/25/2011 (11I0895-BS1)										
1,1-Dichloropropene	24.5	0.50	ug/l	25.0		98	75-120			
cis-1,3-Dichloropropene	25.1	0.50	ug/l	25.0		100	80-120			
trans-1,3-Dichloropropene	25.7	0.50	ug/l	25.0		103	80-125			
Ethylbenzene	24.0	0.50	ug/l	25.0		96	80-120			
Hexachlorobutadiene	24.6	1.0	ug/l	25.0		98	40-150			
2-Hexanone	24.6	2.5	ug/l	25.0		99	20-150			
Iodomethane	27.4	2.5	ug/l	25.0		110	80-130			
Isopropylbenzene	25.9	0.50	ug/l	25.0		104	80-130			
p-Isopropyltoluene	25.0	0.50	ug/l	25.0		100	80-130			
Methylene Chloride	21.4	1.0	ug/l	25.0		85	70-120			
4-Methyl-2-pentanone (MIBK)	26.0	2.5	ug/l	25.0		104	60-135			
Methyl-tert-butyl Ether (MTBE)	22.0	0.50	ug/l	25.0		88	70-130			
Naphthalene	28.7	2.5	ug/l	25.0		115	40-150			
n-Propylbenzene	25.6	0.50	ug/l	25.0		102	75-130			
Styrene	22.6	0.50	ug/l	25.0		90	80-120			
1,1,1,2-Tetrachloroethane	24.2	0.50	ug/l	25.0		97	75-125			
1,1,2,2-Tetrachloroethane	24.6	0.50	ug/l	25.0		98	80-120			
Tetrachloroethene	24.6	0.50	ug/l	25.0		98	70-130			
Toluene	23.4	0.50	ug/l	25.0		94	80-120			
1,2,3-Trichlorobenzene	27.5	1.0	ug/l	25.0		110	55-150			
1,2,4-Trichlorobenzene	26.8	1.0	ug/l	25.0		107	50-150			
1,1,1-Trichloroethane	25.0	0.50	ug/l	25.0		100	75-125			
1,1,2-Trichloroethane	23.7	0.50	ug/l	25.0		95	80-120			
Trichloroethene	24.0	0.50	ug/l	25.0		96	80-120			
Trichlorofluoromethane	23.6	0.50	ug/l	25.0		94	70-150			
1,2,3-Trichloropropane	24.5	1.0	ug/l	25.0		98	70-130			
1,2,4-Trimethylbenzene	24.4	0.50	ug/l	25.0		98	80-120			
1,3,5-Trimethylbenzene	24.9	0.50	ug/l	25.0		100	80-130			
Vinyl Acetate	29.0	1.0	ug/l	25.0		116	40-150			
Vinyl chloride	23.6	0.50	ug/l	25.0		95	70-130			
Xylenes, Total	44.3	1.5	ug/l	50.0		89	60-140			
Freon 113	25.9	2.0	ug/l	25.0		104	60-140			
Surrogate: Dibromofluoromethane	*25.3*		*ug/l*	*25.0*		*101*	*80-130*			
Surrogate: Toluene-d8	*26.1*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.6*		*ug/l*	*25.0*		*103*	*80-125*			

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Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1213

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
LCS Dup Analyzed: 09/25/2011 (11I0895-BSD1)										
Acetone	19.1	10	ug/l	25.0		76	10-150	13	35	
Benzene	23.5	0.50	ug/l	25.0		94	80-120	2	15	
Bromobenzene	22.9	0.50	ug/l	25.0		92	80-120	3	15	
Bromochloromethane	22.3	0.50	ug/l	25.0		89	80-125	1	15	
Bromodichloromethane	23.5	0.50	ug/l	25.0		94	80-120	3	15	
Bromoform	20.0	1.0	ug/l	25.0		80	75-130	4	20	
Bromomethane	18.6	1.0	ug/l	25.0		74	55-150	3	20	
2-Butanone (MEK)	21.3	2.5	ug/l	25.0		85	40-150	8	35	
n-Butylbenzene	24.2	0.50	ug/l	25.0		97	80-130	4	15	
sec-Butylbenzene	23.9	0.50	ug/l	25.0		96	80-125	3	15	
tert-Butylbenzene	24.0	0.50	ug/l	25.0		96	80-120	4	15	
Carbon disulfide	26.6	0.50	ug/l	25.0		106	70-140	2	15	
Carbon tetrachloride	26.0	0.50	ug/l	25.0		104	75-130	3	20	
Chlorobenzene	23.2	0.50	ug/l	25.0		93	80-120	4	15	
Chloroethane	21.6	1.0	ug/l	25.0		86	70-130	4	15	
Chloroform	22.6	0.50	ug/l	25.0		91	75-120	0.4	15	
Chloromethane	19.2	1.0	ug/l	25.0		77	60-140	2	20	
2-Chlorotoluene	22.9	0.50	ug/l	25.0		91	80-120	5	15	
4-Chlorotoluene	24.0	0.50	ug/l	25.0		96	80-120	3	15	
Dibromochloromethane	23.5	0.50	ug/l	25.0		94	80-120	4	15	
1,2-Dibromo-3-chloropropane	23.4	2.5	ug/l	25.0		93	50-150	8	35	
1,2-Dibromoethane (EDB)	23.0	0.50	ug/l	25.0		92	80-120	6	15	
Dibromomethane	22.5	0.50	ug/l	25.0		90	75-120	5	15	
1,2-Dichlorobenzene	24.0	0.50	ug/l	25.0		96	80-120	3	15	
1,3-Dichlorobenzene	22.9	0.50	ug/l	25.0		92	80-120	4	15	
1,4-Dichlorobenzene	23.6	0.50	ug/l	25.0		95	80-120	2	15	
Dichlorodifluoromethane	23.1	0.50	ug/l	25.0		92	60-150	4	30	
1,1-Dichloroethane	23.5	0.50	ug/l	25.0		94	70-125	0.7	15	
1,2-Dichloroethane	23.4	0.50	ug/l	25.0		94	75-130	2	15	
1,1-Dichloroethene	24.0	0.50	ug/l	25.0		96	75-125	0.3	20	
cis-1,2-Dichloroethene	20.6	0.50	ug/l	25.0		83	80-120	1	15	
trans-1,2-Dichloroethene	22.9	0.50	ug/l	25.0		92	80-120	1	15	
1,2-Dichloropropane	23.1	0.50	ug/l	25.0		92	80-120	3	15	
1,3-Dichloropropane	22.1	0.50	ug/l	25.0		88	80-120	7	15	
2,2-Dichloropropane	28.9	1.0	ug/l	25.0		116	75-130	1	15	

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Project Manager

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Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1213

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
LCS Dup Analyzed: 09/25/2011 (11I0895-BSD1)										
1,1-Dichloropropene	23.9	0.50	ug/l	25.0		96	75-120	2	15	
cis-1,3-Dichloropropene	24.2	0.50	ug/l	25.0		97	80-120	4	15	
trans-1,3-Dichloropropene	24.3	0.50	ug/l	25.0		97	80-125	5	15	
Ethylbenzene	23.0	0.50	ug/l	25.0		92	80-120	4	15	
Hexachlorobutadiene	24.5	1.0	ug/l	25.0		98	40-150	0.5	35	
2-Hexanone	22.6	2.5	ug/l	25.0		90	20-150	9	35	
Iodomethane	27.2	2.5	ug/l	25.0		109	80-130	1	10	
Isopropylbenzene	25.2	0.50	ug/l	25.0		101	80-130	3	15	
p-Isopropyltoluene	24.4	0.50	ug/l	25.0		97	80-130	2	15	
Methylene Chloride	21.2	1.0	ug/l	25.0		85	70-120	0.5	15	
4-Methyl-2-pentanone (MIBK)	24.0	2.5	ug/l	25.0		96	60-135	8	25	
Methyl-tert-butyl Ether (MTBE)	22.0	0.50	ug/l	25.0		88	70-130	0.2	20	
Naphthalene	27.9	2.5	ug/l	25.0		112	40-150	3	30	
n-Propylbenzene	24.4	0.50	ug/l	25.0		97	75-130	5	15	
Styrene	21.7	0.50	ug/l	25.0		87	80-120	4	15	
1,1,1,2-Tetrachloroethane	23.6	0.50	ug/l	25.0		94	75-125	3	15	
1,1,2,2-Tetrachloroethane	23.2	0.50	ug/l	25.0		93	80-120	6	20	
Tetrachloroethene	24.2	0.50	ug/l	25.0		97	70-130	1	20	
Toluene	22.8	0.50	ug/l	25.0		91	80-120	3	15	
1,2,3-Trichlorobenzene	26.9	1.0	ug/l	25.0		108	55-150	2	35	
1,2,4-Trichlorobenzene	26.0	1.0	ug/l	25.0		104	50-150	3	30	
1,1,1-Trichloroethane	24.5	0.50	ug/l	25.0		98	75-125	2	15	
1,1,2-Trichloroethane	22.2	0.50	ug/l	25.0		89	80-120	7	15	
Trichloroethene	23.4	0.50	ug/l	25.0		94	80-120	3	15	
Trichlorofluoromethane	22.7	0.50	ug/l	25.0		91	70-150	4	25	
1,2,3-Trichloropropane	23.1	1.0	ug/l	25.0		92	70-130	6	20	
1,2,4-Trimethylbenzene	23.6	0.50	ug/l	25.0		94	80-120	3	15	
1,3,5-Trimethylbenzene	23.8	0.50	ug/l	25.0		95	80-130	4	15	
Vinyl Acetate	28.2	1.0	ug/l	25.0		113	40-150	3	25	
Vinyl chloride	21.5	0.50	ug/l	25.0		86	70-130	10	20	
Xylenes, Total	42.8	1.5	ug/l	50.0		86	60-140	3	15	
Freon 113	26.0	2.0	ug/l	25.0		104	60-140	0.4	15	
Surrogate: Dibromofluoromethane	*25.5*		*ug/l*	*25.0*		*102*	*80-130*			
Surrogate: Toluene-d8	*26.3*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*		*ug/l*	*25.0*		*99*	*80-125*			

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Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1213

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
Matrix Spike Analyzed: 09/25/2011 (11I0895-MS1)					**Source: PUI1152-04**					
Acetone	391	100	ug/l	250	222	67	10-150			
Benzene	285	5.0	ug/l	250	49.7	94	70-125			
Bromobenzene	243	5.0	ug/l	250	ND	97	75-120			
Bromochloromethane	233	5.0	ug/l	250	ND	93	75-130			
Bromodichloromethane	217	5.0	ug/l	250	ND	87	75-125			
Bromoform	181	10	ug/l	250	ND	73	65-125			
Bromomethane	187	10	ug/l	250	ND	75	45-150			
2-Butanone (MEK)	313	25	ug/l	250	103	84	15-150			
n-Butylbenzene	252	5.0	ug/l	250	3.10	99	70-130			
sec-Butylbenzene	250	5.0	ug/l	250	ND	100	70-125			
tert-Butylbenzene	254	5.0	ug/l	250	ND	102	70-125			
Carbon disulfide	182	5.0	ug/l	250	ND	73	65-145			
Carbon tetrachloride	254	5.0	ug/l	250	ND	102	65-135			
Chlorobenzene	251	5.0	ug/l	250	ND	100	75-120			
Chloroethane	222	10	ug/l	250	ND	89	65-140			
Chloroform	221	5.0	ug/l	250	ND	88	70-130			
Chloromethane	178	10	ug/l	250	ND	71	55-145			
2-Chlorotoluene	236	5.0	ug/l	250	1.90	93	70-125			
4-Chlorotoluene	241	5.0	ug/l	250	ND	96	70-125			
Dibromochloromethane	230	5.0	ug/l	250	ND	92	70-130			
1,2-Dibromo-3-chloropropane	231	25	ug/l	250	ND	92	50-150			
1,2-Dibromoethane (EDB)	242	5.0	ug/l	250	ND	97	70-125			
Dibromomethane	219	5.0	ug/l	250	ND	88	70-120			
1,2-Dichlorobenzene	248	5.0	ug/l	250	ND	99	75-120			
1,3-Dichlorobenzene	249	5.0	ug/l	250	ND	100	75-120			
1,4-Dichlorobenzene	250	5.0	ug/l	250	ND	100	70-125			
Dichlorodifluoromethane	196	5.0	ug/l	250	ND	78	60-150			
1,1-Dichloroethane	231	5.0	ug/l	250	ND	92	70-130			
1,2-Dichloroethane	221	5.0	ug/l	250	ND	88	65-140			
1,1-Dichloroethene	249	5.0	ug/l	250	ND	99	70-130			
cis-1,2-Dichloroethene	214	5.0	ug/l	250	ND	86	70-125			
trans-1,2-Dichloroethene	229	5.0	ug/l	250	ND	92	75-125			
1,2-Dichloropropane	226	5.0	ug/l	250	ND	90	75-125			
1,3-Dichloropropane	223	5.0	ug/l	250	ND	89	70-120			
2,2-Dichloropropane	280	10	ug/l	250	ND	112	65-140			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1213

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
Matrix Spike Analyzed: 09/25/2011 (11I0895-MS1)					**Source: PUI1152-04**					
1,1-Dichloropropene	236	5.0	ug/l	250	ND	94	65-130			
cis-1,3-Dichloropropene	211	5.0	ug/l	250	ND	84	75-130			
trans-1,3-Dichloropropene	208	5.0	ug/l	250	ND	83	70-130			
Ethylbenzene	255	5.0	ug/l	250	11.7	97	70-125			
Hexachlorobutadiene	262	10	ug/l	250	ND	105	40-150			
2-Hexanone	234	25	ug/l	250	17.3	87	20-150			
Iodomethane	287	25	ug/l	250	ND	115	60-150			
Isopropylbenzene	263	5.0	ug/l	250	ND	105	75-130			
p-Isopropyltoluene	262	5.0	ug/l	250	ND	105	70-130			
Methylene Chloride	212	10	ug/l	250	ND	85	65-130			
4-Methyl-2-pentanone (MIBK)	234	25	ug/l	250	ND	94	55-135			
Methyl-tert-butyl Ether (MTBE)	373	5.0	ug/l	250	166	83	65-140			
Naphthalene	332	25	ug/l	250	28.2	121	40-150			
n-Propylbenzene	254	5.0	ug/l	250	2.10	101	70-130			
Styrene	233	5.0	ug/l	250	ND	93	55-135			
1,1,1,2-Tetrachloroethane	254	5.0	ug/l	250	ND	102	70-125			
1,1,2,2-Tetrachloroethane	221	5.0	ug/l	250	ND	88	70-125			
Tetrachloroethene	265	5.0	ug/l	250	ND	106	65-130			
Toluene	288	5.0	ug/l	250	55.9	93	70-125			
1,2,3-Trichlorobenzene	271	10	ug/l	250	ND	108	50-150			
1,2,4-Trichlorobenzene	265	10	ug/l	250	ND	106	50-150			
1,1,1-Trichloroethane	246	5.0	ug/l	250	ND	98	70-130			
1,1,2-Trichloroethane	221	5.0	ug/l	250	ND	88	75-125			
Trichloroethene	236	5.0	ug/l	250	ND	94	70-125			
Trichlorofluoromethane	222	5.0	ug/l	250	ND	89	65-150			
1,2,3-Trichloropropane	231	10	ug/l	250	ND	92	70-130			
1,2,4-Trimethylbenzene	267	5.0	ug/l	250	23.4	98	70-125			
1,3,5-Trimethylbenzene	259	5.0	ug/l	250	6.50	101	75-130			
Vinyl Acetate	262	10	ug/l	250	ND	105	40-150			
Vinyl chloride	225	5.0	ug/l	250	ND	90	60-140			
Xylenes, Total	539	15	ug/l	500	73.2	93	75-120			
Freon 113	268	20	ug/l	250	ND	107	65-140			
Surrogate: Dibromofluoromethane	*24.6*		*ug/l*	*25.0*		*99*	*80-130*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.0*		*ug/l*	*25.0*		*100*	*80-125*			

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1213

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
Matrix Spike Dup Analyzed: 09/25/2011 (11I0895-MSD1)					**Source: PUI1152-04**					
Acetone	339	100	ug/l	250	222	47	10-150	14	35	
Benzene	267	5.0	ug/l	250	49.7	87	70-125	7	25	
Bromobenzene	231	5.0	ug/l	250	ND	92	75-120	5	20	
Bromochloromethane	215	5.0	ug/l	250	ND	86	75-130	8	20	
Bromodichloromethane	206	5.0	ug/l	250	ND	83	75-125	5	20	
Bromoform	158	10	ug/l	250	ND	63	65-125	14	25	*M2*
Bromomethane	178	10	ug/l	250	ND	71	45-150	5	35	
2-Butanone (MEK)	286	25	ug/l	250	103	73	15-150	9	30	
n-Butylbenzene	237	5.0	ug/l	250	3.10	94	70-130	6	30	
sec-Butylbenzene	238	5.0	ug/l	250	ND	95	70-125	5	30	
tert-Butylbenzene	242	5.0	ug/l	250	ND	97	70-125	5	25	
Carbon disulfide	169	5.0	ug/l	250	ND	67	65-145	8	25	
Carbon tetrachloride	240	5.0	ug/l	250	ND	96	65-135	6	25	
Chlorobenzene	233	5.0	ug/l	250	ND	93	75-120	7	20	
Chloroethane	206	10	ug/l	250	ND	82	65-140	8	25	
Chloroform	203	5.0	ug/l	250	ND	81	70-130	8	20	
Chloromethane	174	10	ug/l	250	ND	70	55-145	2	35	
2-Chlorotoluene	218	5.0	ug/l	250	1.90	86	70-125	8	25	
4-Chlorotoluene	227	5.0	ug/l	250	ND	91	70-125	6	25	
Dibromochloromethane	204	5.0	ug/l	250	ND	82	70-130	12	20	
1,2-Dibromo-3-chloropropane	211	25	ug/l	250	ND	84	50-150	9	30	
1,2-Dibromoethane (EDB)	224	5.0	ug/l	250	ND	90	70-125	8	20	
Dibromomethane	210	5.0	ug/l	250	ND	84	70-120	4	20	
1,2-Dichlorobenzene	238	5.0	ug/l	250	ND	95	75-120	4	20	
1,3-Dichlorobenzene	236	5.0	ug/l	250	ND	94	75-120	6	25	
1,4-Dichlorobenzene	238	5.0	ug/l	250	ND	95	70-125	5	20	
Dichlorodifluoromethane	197	5.0	ug/l	250	ND	79	60-150	0.6	30	
1,1-Dichloroethane	213	5.0	ug/l	250	ND	85	70-130	8	20	
1,2-Dichloroethane	204	5.0	ug/l	250	ND	82	65-140	8	20	
1,1-Dichloroethene	228	5.0	ug/l	250	ND	91	70-130	8	25	
cis-1,2-Dichloroethene	198	5.0	ug/l	250	ND	79	70-125	8	20	
trans-1,2-Dichloroethene	220	5.0	ug/l	250	ND	88	75-125	4	25	
1,2-Dichloropropane	213	5.0	ug/l	250	ND	85	75-125	6	20	
1,3-Dichloropropane	210	5.0	ug/l	250	ND	84	70-120	6	20	
2,2-Dichloropropane	274	10	ug/l	250	ND	110	65-140	2	25	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd., Ste. 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: OU3-New Wells
Report Number: PUI1213

Sampled: 09/20/11
Received: 09/20/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0895 Extracted: 09/25/11										
Matrix Spike Dup Analyzed: 09/25/2011 (11I0895-MSD1)					**Source: PUI1152-04**					
1,1-Dichloropropene	229	5.0	ug/l	250	ND	92	65-130	3	25	
cis-1,3-Dichloropropene	199	5.0	ug/l	250	ND	79	75-130	6	20	
trans-1,3-Dichloropropene	196	5.0	ug/l	250	ND	79	70-130	6	20	
Ethylbenzene	237	5.0	ug/l	250	11.7	90	70-125	7	25	
Hexachlorobutadiene	246	10	ug/l	250	ND	99	40-150	6	30	
2-Hexanone	218	25	ug/l	250	17.3	80	20-150	7	30	
Iodomethane	272	25	ug/l	250	ND	109	60-150	6	30	
Isopropylbenzene	249	5.0	ug/l	250	ND	100	75-130	5	25	
p-Isopropyltoluene	246	5.0	ug/l	250	ND	98	70-130	6	30	
Methylene Chloride	197	10	ug/l	250	ND	79	65-130	7	20	
4-Methyl-2-pentanone (MIBK)	223	25	ug/l	250	ND	89	55-135	5	25	
Methyl-tert-butyl Ether (MTBE)	362	5.0	ug/l	250	166	79	65-140	3	25	
Naphthalene	301	25	ug/l	250	28.2	109	40-150	10	30	
n-Propylbenzene	238	5.0	ug/l	250	2.10	94	70-130	6	30	
Styrene	218	5.0	ug/l	250	ND	87	55-135	7	35	
1,1,1,2-Tetrachloroethane	238	5.0	ug/l	250	ND	95	70-125	7	20	
1,1,2,2-Tetrachloroethane	215	5.0	ug/l	250	ND	86	70-125	3	25	
Tetrachloroethene	247	5.0	ug/l	250	ND	99	65-130	7	25	
Toluene	269	5.0	ug/l	250	55.9	85	70-125	7	20	
1,2,3-Trichlorobenzene	260	10	ug/l	250	ND	104	50-150	4	35	
1,2,4-Trichlorobenzene	253	10	ug/l	250	ND	101	50-150	4	25	
1,1,1-Trichloroethane	230	5.0	ug/l	250	ND	92	70-130	7	25	
1,1,2-Trichloroethane	212	5.0	ug/l	250	ND	85	75-125	4	20	
Trichloroethene	222	5.0	ug/l	250	ND	89	70-125	6	25	
Trichlorofluoromethane	205	5.0	ug/l	250	ND	82	65-150	8	25	
1,2,3-Trichloropropane	224	10	ug/l	250	ND	89	70-130	3	25	
1,2,4-Trimethylbenzene	253	5.0	ug/l	250	23.4	92	70-125	6	30	
1,3,5-Trimethylbenzene	243	5.0	ug/l	250	6.50	95	75-130	6	25	
Vinyl Acetate	249	10	ug/l	250	ND	100	40-150	5	30	
Vinyl chloride	215	5.0	ug/l	250	ND	86	60-140	4	25	
Xylenes, Total	496	15	ug/l	500	73.2	84	75-120	8	15	
Freon 113	247	20	ug/l	250	ND	99	65-140	8	20	
Surrogate: Dibromofluoromethane	*23.9*		*ug/l*	*25.0*		*96*	*80-130*			
Surrogate: Toluene-d8	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*		*ug/l*	*25.0*		*97*	*80-125*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West 7272 E. Indian School Rd., Ste. 100 Scottsdale, AZ 85251 Attention: Jason Hilker	Project ID: OU3-New Wells Report Number: PUI1213	Sampled: 09/20/11 Received: 09/20/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11I0953 Extracted: 09/27/11										
Blank Analyzed: 09/28/2011 (11I0953-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*16.2*		*ug/l*	*20.0*		*81*	*38.6-88.3*			
Surrogate: Nitrobenzene-d5	*18.5*		*ug/l*	*20.0*		*92*	*59.9-120*			
LCS Analyzed: 09/28/2011 (11I0953-BS1)										**Q8**
1,4-Dioxane	20.7	1.0	ug/l	20.0		104	80-120			
Surrogate: 1,4-Dioxane-d8	*14.6*		*ug/l*	*20.0*		*73*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*17.8*		*ug/l*	*20.0*		*89*	*38-125*			
LCS Dup Analyzed: 09/28/2011 (11I0953-BSD1)										**Q8**
1,4-Dioxane	20.7	1.0	ug/l	20.0		104	80-120	0.001	25	
Surrogate: 1,4-Dioxane-d8	*15.5*		*ug/l*	*20.0*		*78*	*32-57*			*S10*
Surrogate: Nitrobenzene-d5	*17.9*		*ug/l*	*20.0*		*90*	*38-125*			

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Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West	Project ID: OU3-New Wells	
7272 E. Indian School Rd., Ste. 100		Sampled: 09/20/11
Scottsdale, AZ 85251	Report Number: PUI1213	Received: 09/20/11
Attention: Jason Hilker		

DATA QUALIFIERS AND DEFINITIONS

M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
Q8	Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000.
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West 7272 E. Indian School Rd., Ste. 100 Scottsdale, AZ 85251 Attention: Jason Hilker	Project ID: OU3-New Wells Report Number: PUI1213	Sampled: 09/20/11 Received: 09/20/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
EPA 8270C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

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Kylie Emily
Project Manager

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PVI1213

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

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[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page _____ of _____

Client Name/Address: ERM
7272 E. Indian School Rd STE 100
Scottsdale AZ 85251

Project/PO Number: 003 - New Wells
0096498.013

Project Manager: Jason.Hilker@ERM.com

Phone Number: 480-998-2401

Sampler: Kyle Johnson

Fax Number:

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOC (8260B)	1,4-Dioxane (8270C)								Special Instructions
003-20M-M-092011	WT	40ml / 1L	3 / 2	9/20/11	1133	HCl / 1L	X	X						—	01	LEVEL III

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)
[signature]	9/20/11 1530	[signature]		same day ____ 72 hours ____
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours ____ 5 days ____
				48 hours ____ normal X
Relinquished By:	Date/Time:	Received In Lab By: [signature]	Date/Time: 9/20/11 1530	Sample Integrity: (Check) Intact X on ice X 1.4°C

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Attachment C
Data Validation Report

APPENDIX C

DATA VALIDATION REPORT

Analytical data form the basis for evaluating the environmental conditions present at the Motorola 52nd Street Superfund Site, Operable Unit 3, during the New Groundwater Wells Quarterly Sampling Event – September 2011. It is essential that the data be accurate and reflective of actual conditions.

During the September 13, 2011 through September 20, 2011 groundwater sampling event, 7 original water samples and 7 QA/QC samples were collected. All data underwent a Tier 1A review, and 10% of the data was reviewed at Tier 3 to ensure that data quality was acceptable for decision-making purposes. This process identified limitations for use of the data, and/or data that should not be used for decision-making purposes. The quality of data was assessed and any necessary qualifiers were applied following the *United States Environmental Protection Agency* (USEPA) *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (June 2008).

Laboratory Data Consultants, Inc. (LDC) validated/reviewed data for compliance with the following QA/QC project and/or method-prescribed criteria (described later in this section):

- Holding Time and Preservation: The period of time between collection of the sample, preparation/analysis, and acceptable temperature range of the sample. Analyses performed for this project have method-prescribed holding times and temperature ranges.

- Calibration: The analysis of target analytes at a range of concentrations to develop a graphical plot of instrument response against the different analyte concentrations. An initial calibration curve establishes the graphical plot, and the continuing calibration verification monitors daily instrument linearity against the initial calibration (Tier 3 review only).

- Blank Samples: The preparation and analysis of reagent (contaminant-free) water. Blank samples for this investigation included method blanks, trip blanks, field blanks, and equipment rinsates. Detections in a blank sample indicate laboratory and/or transportation or field contamination.

- Spike Samples: The preparation and analysis of an environmental sample or a sample of reagent water spiked with a subset of target compounds at known concentrations. The results of the spike analysis measure laboratory accuracy in the reagent sample, and results from the environmental sample spike measure potential interferences from the matrix.

- Internal Standards: The addition of compounds similar to target compounds of interest that are added to sample aliquots for organic analysis. The internal standards are used to quantitatively and qualitatively evaluate retention time and response for each sample (Tier 3 review only).

- Surrogate Spikes: The addition of compounds similar to target compounds of interest that are added to sample aliquots for organic analysis. Surrogate spikes measure possible interference from the sample matrix for the analysis of target compounds.

- Duplicate Samples: The preparation and analysis of an additional aliquot of the sample. The results from duplicate analysis measure potential heterogeneity of contaminants in the sample.

Standard qualifiers that may be applied during the review process are as follows:

J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample;

U: The analyte was not detected above the reported sample quantitation limit; and

UJ: The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximate and may or may not have represented the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R: The sample results were rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte could not be verified.

All of the data, including data qualified as having estimated values, are acceptable and can be used for decision-making purposes.

The following discussion addresses each of the QA/QC components listed above and the results for each of the components. EPA Tier 1A documentation was required for the samples in data packages PUI0738, PUI1134, and PUI1212. The data were reviewed for each of the components listed above, with the exception of calibration and internal standard response. EPA Tier 3 review was requested for all samples in data packages PUI1135 and PUI1213 for the groundwater samples. Results were validated from the raw data provided by the laboratory. The validation included a review of the calibration results, internal standard response, and recalculation of a portion of the raw data, as well as the areas covered in the standard data review.

Holding Time and Preservation

The EPA has established the maximum holding time that can elapse between preparation and analysis of samples. The EPA has also defined the acceptable temperature range at which samples must be stored to maintain sample preservation. Holding times and sample temperatures extending beyond the EPA maximum can negatively affect sample integrity (e.g., loss of volatile compounds, biodegradation) and are qualified depending on the severity of the exceedance and compounds of concern.

Each of the sample analysis results was reviewed for compliance with the method-prescribed preparation and analysis holding times. None of the samples were analyzed outside of the maximum allowable holding time.

All samples collected were received at the laboratory in within the proper temperature range.

Calibration Results

Before an analytical instrument is used for sample analysis, the instrument must be calibrated to be within EPA method specifications. The purpose of this calibration is to ensure that the instrument is appropriately responsive to measurable chemical concentrations. If an instrument is not properly calibrated, it may not be capable of producing acceptable quantitative, qualitative, and reproducible data. For example, detected concentrations of a given compound that would still be considered valid could contain an undetermined degree of inaccuracy. In the case of nondetected results, the reporting limit would be similarly affected; such results would still be considered nondetected.

Two types of calibration data were reviewed. These were initial calibration (ICAL) and continuing calibration verification (CCV). A curve establishes a graphical plot of instrument response against the different analyte concentrations, and the CCV monitors daily instrument linearity against the initial calibration. The ICAL consisted of standards that were analyzed at five concentrations. These concentrations ranged from the reporting limit to the upper linear range of the instrument. The laboratory calculated the relative standard deviation for each of the target analytes included in the ICAL. The laboratory also calculated the relative response factors (RRFs) for the analytes in the ICAL. The reported percent relative standard deviations and RRFs were compared to the method-prescribed acceptance criteria and validation criteria during the data validation. In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

A CCV and ICV are analyzed every 12 hours to ensure the instrument response is still within method-performance criteria for linearity. The CCV/ICV consisted of analyzing a standard at one concentration; the concentration of this standard was generally in the mid-range of the ICAL standard concentrations. The laboratory calculated the percent difference (%D) between CCV/ICV and the ICAL. The laboratory calculated the CCV/ICV RRFs. The %Ds and RRFs were then compared to the method-

prescribed acceptance criteria and validation criteria during the data validation. Results quantitated using an unacceptable %D or RRF value may be considered semiquantitative and may be subject to some amount of error.

In data package PUI1135 for method 8260B, the CCV %D for Dichlorodifluoromethane was outside the QC limits. The associated data were qualified as estimated J/UJ on the basis of calibration outliers.

These outliers are listed in Table C-1.

Blank Samples

The purpose of a blank sample is to determine the presence and magnitude of contamination resulting from laboratory, shipping, or other sample-handling activities. Blank samples are analyzed and evaluated for detections of target compounds. If target compounds are detected in a blank sample that was initially intended to be contaminant-free, these detections indicate some element of the sample collection, transportation, or analysis activities has introduced contaminants not present in the original environmental sample aliquot. If target compounds are detected in a blank sample, then all associated data must be carefully evaluated to determine whether those results have been similarly impacted or the blank problem is an isolated occurrence not representative of other data.

The four types of blank samples routinely analyzed and reported with the groundwater samples were method blank, trip blank, field blank, and equipment blank samples. Preparation, handling, and analysis of these blank samples are summarized below.

1. The laboratory prepared method blank samples by taking an aliquot of reagent water through all of the preparation and analysis steps that the samples go through. A method blank was prepared and analyzed with each batch of environmental samples. Method blank samples monitor for potential contamination of samples from the laboratory.

2. Trip blank samples are typically analyzed with every shipment of samples for volatile organic compounds only. Field and method blank samples may occasionally be contaminated during preparation and/or

analysis from ambient conditions at the laboratory. The majority of the method blank and trip blank results were nondetected, indicating laboratory and handling conditions were acceptable.

3. Field blank samples were prepared at sample collection locations by slowly pouring tap water into clean sample containers supplied by the laboratory. Field blank samples collected were labeled with an "R" identifier in the sample identification number. Field blank samples monitor for potential contamination of project samples from ambient conditions at the sample collection site.

4. Equipment blank samples were prepared at sample collection locations from the pump exterior of the sampling equipment. The identifier "EB" was used in the equipment blank sample identification number. Equipment blank samples monitor for potential cross contamination of project samples from sampling equipment.

In data packages PUI1134 and PUI1135 for method 8260B the equipment blank sample had three volatile contaminants detected. The associated samples with detected results were qualified as nondetected at the reported concentration.

In data package PUI1213 for method 8260B the equipment blank sample and field blank sample each had three volatile contaminants detected. The associated samples were all nondetected and did not require qualification.

In data package PUI1212 for method 8260B the equipment blank sample and field blank sample each had three volatile contaminants detected. The associated samples were all nondetected and did not require qualification.

For method 8260B the trip blank samples analyzed were all nondetected.

For method 8270C the equipment blank and field blank samples analyzed were all nondetected.

These detections and qualifications are listed in Table C-2.

Spike Samples

A spike sample is a QC sample that is prepared and analyzed by the laboratory. The laboratory prepares, analyzes, and reports spike sample results to demonstrate their ability to properly analyze, detect, and quantify target compounds. A spike sample result is typically reported as the amount of compound detected divided by the amount spiked into the sample and is commonly referred to as percent recovery. The percent recovery is then compared to an established limit range. The two types of spike samples analyzed with the project samples were matrix spikes and blank spikes.

1. Matrix spike (MS) samples consist of an aliquot of an environmental sample that is spiked with known concentrations of a subset of target compounds. A matrix spike duplicate (MSD) sample is a second sample prepared and analyzed with the MS sample. MS samples are used to monitor potential interference from the sample matrix for target compounds. A low MS recovery may indicate low-biased sample results; a high MS recovery may indicate high-biased sample results.

2. Blank spike samples, which are commonly referred to as laboratory control samples (LCS), are an aliquot of reagent water that is spiked with known concentrations of a subset of target compounds. The LCS is used to monitor laboratory accuracy without the bias of a sample matrix. A laboratory control sample duplicate (LCSD) is a second LCS that is prepared with the first LCS. LCS and LCSD recoveries outside of acceptable limits may indicate poor laboratory accuracy. LCSD relative percent differences (RPD) outside of acceptable limits may indicate poor precision.

For method 8260B one MS/MSD recovery and RPD was not within acceptable limits. Data required qualification in data package PUI1135.

For method 8260B three LCS/LCSD recoveries were not within acceptable limits. Data required qualification in data package PUI0738.

For method 8270C all of the MS/MSD and LCS/LCSD recoveries and RPDs were within acceptable limits.

The MS/MSD outlier results are listed in Table C-3.

The LCS/LCSD outlier results are listed in Table C-4.

Internal Standard Responses

Under EPA methods, a given analyte list for organic compounds is segregated by chemical properties and retention time into subsets. An EPA-defined internal standard with comparable chemical properties and retention times is assigned to each subset of analytes. A known concentration of an internal standard is added to each sample including laboratory QC samples (e.g., calibration standards, MS, method blank samples) prior to analysis and the instrument internal standard response for each sample is compared to the internal standard response in the daily CCV.

The sample internal standard area count must be within the range of 0.5 to 2 times the CCV area count, and the retention time must be within ±30 seconds of the CCV retention time. If the area count and/or retention times measured for the sample is outside these acceptance ranges, quantitation results for the associated analyte subset may be biased. Interferences from the sample matrix are typically responsible for internal standard responses that are consistently outside acceptable ranges. Most matrix interferences cause a high or low bias.

Internal standards were added to each of the samples analyzed for volatile compound analysis. None of the data was qualified due to measured retention times. The internal standard responses were within acceptable limits, indicating minimal matrix interferences and acceptable sample quantitation.

Surrogate Spikes

A surrogate spike is similar to an internal standard; it is chemically similar to the target compounds and it is only used in organic analyses. A surrogate spike is used to assess interference from the sample matrix during the analysis. An internal standard is used to quantitate target compounds while accounting for any possible interference from the sample matrix. Surrogate spike results are typically reported in terms of

percent recovery, based on the concentration of surrogate detected divided by the known amount of surrogate added to the sample aliquot.

Surrogate recoveries were compared to the laboratory-generated limits of acceptance. All surrogate recoveries were within acceptable limits for all samples for methods 8260B and 8270C.

Field Duplicate Samples

A duplicate sample is a second aliquot of a sample that is collected, prepared, and analyzed in the same manner as the original sample. A field duplicate sample is collected to measure the precision of the method and to assess matrix heterogeneity. The USEPA has not established control criteria for field duplicate samples; therefore, sample data are not qualified on the basis of field duplicate imprecision.

One groundwater sample was collected in duplicate and submitted for analysis. LDC calculated the relative percent difference (RPD) or actual difference between detected values in the groundwater sample duplicate pairs. The USEPA has not established control criteria based on field duplicate samples; therefore, sample data are not qualified on the basis of field duplicate imprecision. The RPDs and actual difference indicate matrix homogeneity in the samples collected for the groundwater sampling event.

The calculated RPDs and actual difference are presented in Table C-5.

Analytical Duplicate Samples

An analytical duplicate sample is a second aliquot of a sample that is prepared and analyzed in the laboratory in the same manner as the original sample. Analytical duplicate samples are analyzed to measure the precision of the method and to assess matrix heterogeneity.

No analytical duplicates were analyzed for methods 8260B and 8270C.

Performance Evaluation Sample

Sample GW-Z1-1-092011 in data package PUI1212 was identified as a performance evaluation sample; the results were not evaluated in this review.

Overall Assessment

All data can be used for decision-making purposes; however, the limitations indicated by the applied qualifier should be considered when using the data.

No results were found to be rejected (R) during the sampling event. Sample results that were found to be estimated (J) are usable for limited purposes only. All other results are considered valid and usable for all purposes.

The quality of the data generated during the September 13, 2011 through September 20, 2011 groundwater investigation at the Motorola Superfund Site, OU3 is acceptable for the preparation of technically defensible documents.

Table C-1
Calibrations Outside of Acceptable Limits
Motorola Superfund Site, OU3

Lab Package	Calibration Date	Associated Sample	Method	Analyte	%D	Analysis Criteria	Validation Criteria	RRF	RRF Criteria	LDC Qualifier
PUI1135	9/24/2011	OU3-17S-S-091911**	8260B	Dichlorodifluoromethane	29	≤20.0	≤25.0	1.054	>0.05	J/UJ
	CCV	OU3-19M-M-091911**								

Key:

NA = No qualified result
ICAL = Initial calibration
CCAL = Continuing calibration
RRF = Relative response factor
%D = Percent difference

J detects = Estimated detected result
UJ = Nondetected, estimated report limit
J/UJ = Detected results are estimated; nondetected results are estimated at the report limit
RPD = Relative percent difference
** = Sample underwent Tier 3 review

Table C-2
Blank and Associated Suspect Sample Detections
Motorola Superfund Site, OU3

Lab Package	Blank ID	Method	Associated Samples	Detected Compound	Reported Concentration	Report Limit	Units	LDC Qualifier
PUI1135	GW-EB1-8-091911	8260B	See below	Bromodichloromethane	1.2	0.50	ug/L	
				Chloroform	3.6	0.50	ug/L	
				Dibromochloromethane	0.7	0.50	ug/L	
			OU3-17S-S-091911**	Chloroform	18	0.50	ug/L	18U
			OU3-19M-M-091911**	Chloroform	1.2	0.50	ug/L	1.2U
PUI1213	GW-R1-1-092011	8260B	See below	Bromodichloromethane	3.0	0.50	ug/L	
				Chloroform	5.4	0.50	ug/L	
				Dibromochloromethane	1.4	0.50	ug/L	
PUI1213	GW-EB1-1-092011	8260B	See below	Bromodichloromethane	2.5	0.50	ug/L	
				Chloroform	4.2	0.50	ug/L	
				Dibromochloromethane	1.2	0.50	ug/L	
			OU3-20M-M-092011**					NA, ND
PUI1134	GW-EB1-8-091911	8260B	See below	Bromodichloromethane	1.2	0.50	ug/L	
				Chloroform	3.6	0.50	ug/L	
				Dibromochloromethane	0.7	0.50	ug/L	
			OU3-16M-M-091911	Chloroform	1.9	0.50	ug/L	1.9U
			OU3-16S-S-091911	Chloroform	2.7	0.50	ug/L	2.7U
			OU3-17S-S-091911-Q1	Chloroform	18	0.50	ug/L	18U
PUI1212	GW-R1-1-092011	8260B	See below	Bromodichloromethane	3.0	0.50	ug/L	
				Chloroform	5.4	0.50	ug/L	
				Dibromochloromethane	1.4	0.50	ug/L	
PUI1212	GW-EB1-1-092011	8260B	See below	Bromodichloromethane	2.5	0.50	ug/L	
				Chloroform	4.2	0.50	ug/L	
				Dibromochloromethane	1.2	0.50	ug/L	
			OU3-20S-S-092011					NA, ND

Key:

NA = No qualified result
U = Nondetected
>5X = Concen
** = Sample underwent Tier 3 review

MB = Method blank
FT = Field blank
FA = ASTM water blank

R = Equipment Rinsate
ug/L = microgram per liter
>5X = Concentration in sample was more than 5X the blank concetnration

Table C-3
Matrix Spike/Matrix Spike Duplicate Recoveries & RPDs Outside of Acceptable Limits
Motorola Superfund Site, OU3

Lab Package	MS/MSD ID	Associated Sample	Method	Compound	MS (% R)	MSD (% R)	Limit (%)	RPD	RPD Limit	LDC Qualifier
PUI1135	OU3-17S-S-091911MS/	OU3-17S-S-091911	8260B	Carbon disulfide	92	68	65-145	30	≤25	J detects
	OU3-17S-S-091911MSD									

Key:
J detects = Estimated detected result
UJ = Nondetected, estimated report limit
J/UJ = Detected results are estimated; nondetected results are estimated at the report limit
RPD = Relative percent difference
>4X spike = Parent concentration more than 4X the spike amount in the MS/MSD

** = Sample underwent Tier 3 review

Table C-5
Field Duplicate Results and Calculated Relative Percent Differences
Motorola Superfund Site, OU3

Lab Package	Method	Primary Sample ID/ Duplicate Sample ID	Compound	Concentration Sample	Concentration Duplicate	RPD Limit	Difference Limit	Units	Primary RL	Duplicate RL	Difference	RPD (%)
PUI1135/	8260B	OU3-17S-S-091911/	Chloroform	18	18	≤20	NA	ug/L	0.50	0.50	NA	0
PUI1134		OU3-17S-S-091911-Q1	1,1-Dichloroethane	0.52	0.57	NA	0.50	ug/L	0.50	0.50	0.05	NA
			Toluene	0.62	0.55	NA	0.50	ug/L	0.50	0.50	0.07	NA
			Trichloroethene	2.9	2.8	≤20	NA	ug/L	0.50	0.50	NA	4

Key:
NC = Not calculated, one result was detected and the other result was nondetected
ug/L = microgram per liter
** = Sample underwent Tier 3 review
NA = Not applicable
RPD = Relative percent difference; used when sample results are >5x the reporting limit
Difference = used when a sample result is less than 5x the reporting limit
mg/L = milligram per liter

Table C-4

Laboratory Control Sample/Laboratory Control Sample Duplicate Recoveries & RPDs Outside of Acceptable Limits

Motorola Superfund Site, OU3

Lab Package	LCS/LCSD ID	Associated Sample	Method	Compound	LCS (% R)	LCSD (% R)	Limit (%)	RPD	RPD Limit	LDC Qualifier
PUI0738	11I0653-BS1/BSD1	OU3-10S-S-091311	8260B	Bromodichloromethane	84	79	80-120	6	≤15	J/UJ
				cis-1,3-Dichloropropene	88	79	80-120	10	≤15	J/UJ
				trans-1,3-Dichloropropene	82	75	80-125	9	≤15	J/UJ

Key:

J detects = Estimated detected result

UJ = Nondetected, estimated report limit

J/UJ = Detected results are estimated; nondetected results are estimated at the report limit

RPD = Relative percent difference

** = Sample underwent Tier 3 review

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