

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-109519-1

Client Project/Site: Henry (Asbury) Condensate 2015

For:

Advanced Environmental Management Inc.

3842 Keith Bridge Road

#137

Cumming, Georgia 30041

Attn: Darrell Webb



Authorized for release by:

2/12/2015 1:46:29 PM

Jess Hornsby, Project Manager I

(813)885-7427

jess.hornsby@testamericainc.com

LINKS

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results through

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Advanced Environmental Management Inc.
Project/Site: Henry (Asbury) Condensate 2015

TestAmerica Job ID: 680-109519-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-109519-1	Condensate	Water	01/29/15 16:38	01/31/15 08:52

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Case Narrative

Client: Advanced Environmental Management Inc.
Project/Site: Henry (Asbury) Condensate 2015

TestAmerica Job ID: 680-109519-1

Job ID: 680-109519-1

Laboratory: TestAmerica Savannah

Narrative

Receipt

The sample was received on 1/31/2015 8:52 AM; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.5°C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Advanced Environmental Management Inc.
Project/Site: Henry (Asbury) Condensate 2015

TestAmerica Job ID: 680-109519-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Advanced Environmental Management Inc.
Project/Site: Henry (Asbury) Condensate 2015

TestAmerica Job ID: 680-109519-1

Client Sample ID: Condensate

Lab Sample ID: 680-109519-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.5		0.20		mg/L	20		8260B	TCLP
2-Butanone	1.5		0.20		mg/L	20		8260B	TCLP
Gasoline Range Organics (GRO) -C6-C10	0.059		0.050		mg/L	1		8015C	Total/NA
Diesel Range Organics [C10-C28]	3.8		0.095		mg/L	1		8015C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah



Client Sample Results

Client: Advanced Environmental Management Inc.
 Project/Site: Henry (Asbury) Condensate 2015

TestAmerica Job ID: 680-109519-1

Client Sample ID: Condensate

Lab Sample ID: 680-109519-1

Date Collected: 01/29/15 16:38

Matrix: Water

Date Received: 01/31/15 08:52

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.5		0.20		mg/L			02/04/15 18:02	20
Acrylonitrile	ND		0.40		mg/L			02/04/15 18:02	20
Benzene	ND		0.020		mg/L			02/04/15 18:02	20
Bromochloromethane	ND		0.020		mg/L			02/04/15 18:02	20
Bromodichloromethane	ND		0.020		mg/L			02/04/15 18:02	20
Bromoform	ND		0.020		mg/L			02/04/15 18:02	20
Bromomethane	ND		0.10		mg/L			02/04/15 18:02	20
2-Butanone	1.5		0.20		mg/L			02/04/15 18:02	20
Carbon disulfide	ND		0.040		mg/L			02/04/15 18:02	20
Carbon tetrachloride	ND		0.020		mg/L			02/04/15 18:02	20
Chlorobenzene	ND		0.020		mg/L			02/04/15 18:02	20
Chloroethane	ND		0.10		mg/L			02/04/15 18:02	20
Chloroform	ND		0.020		mg/L			02/04/15 18:02	20
Chloromethane	ND		0.020		mg/L			02/04/15 18:02	20
cis-1,2-Dichloroethene	ND		0.020		mg/L			02/04/15 18:02	20
cis-1,3-Dichloropropene	ND		0.020		mg/L			02/04/15 18:02	20
Dibromochloromethane	ND		0.020		mg/L			02/04/15 18:02	20
1,2-Dibromo-3-Chloropropane	ND		0.10		mg/L			02/04/15 18:02	20
1,2-Dibromoethane	ND		0.020		mg/L			02/04/15 18:02	20
Dibromomethane	ND		0.020		mg/L			02/04/15 18:02	20
1,2-Dichlorobenzene	ND		0.020		mg/L			02/04/15 18:02	20
1,4-Dichlorobenzene	ND		0.020		mg/L			02/04/15 18:02	20
Dichlorodifluoromethane	ND		0.020		mg/L			02/04/15 18:02	20
1,1-Dichloroethane	ND		0.020		mg/L			02/04/15 18:02	20
1,2-Dichloroethane	ND		0.020		mg/L			02/04/15 18:02	20
1,1-Dichloroethene	ND		0.020		mg/L			02/04/15 18:02	20
1,2-Dichloropropane	ND		0.020		mg/L			02/04/15 18:02	20
Ethylbenzene	ND		0.020		mg/L			02/04/15 18:02	20
2-Hexanone	ND		0.20		mg/L			02/04/15 18:02	20
Iodomethane	ND		0.20		mg/L			02/04/15 18:02	20
Methylene Chloride	ND		0.10		mg/L			02/04/15 18:02	20
4-Methyl-2-pentanone	ND		0.20		mg/L			02/04/15 18:02	20
Styrene	ND		0.020		mg/L			02/04/15 18:02	20
1,1,1,2-Tetrachloroethane	ND		0.020		mg/L			02/04/15 18:02	20
1,1,2,2-Tetrachloroethane	ND		0.020		mg/L			02/04/15 18:02	20
Tetrachloroethene	ND		0.020		mg/L			02/04/15 18:02	20
Toluene	ND		0.020		mg/L			02/04/15 18:02	20
trans-1,4-Dichloro-2-butene	ND		0.040		mg/L			02/04/15 18:02	20
trans-1,2-Dichloroethene	ND		0.020		mg/L			02/04/15 18:02	20
trans-1,3-Dichloropropene	ND		0.020		mg/L			02/04/15 18:02	20
1,1,1-Trichloroethane	ND		0.020		mg/L			02/04/15 18:02	20
1,1,2-Trichloroethane	ND		0.020		mg/L			02/04/15 18:02	20
Trichloroethene	ND		0.020		mg/L			02/04/15 18:02	20
Trichlorofluoromethane	ND		0.020		mg/L			02/04/15 18:02	20
1,2,3-Trichloropropane	ND		0.020		mg/L			02/04/15 18:02	20
Vinyl acetate	ND		0.040		mg/L			02/04/15 18:02	20
Vinyl chloride	ND		0.020		mg/L			02/04/15 18:02	20
Xylenes, Total	ND		0.040		mg/L			02/04/15 18:02	20

TestAmerica Savannah

Client Sample Results

Client: Advanced Environmental Management Inc.
Project/Site: Henry (Asbury) Condensate 2015

TestAmerica Job ID: 680-109519-1

Client Sample ID: Condensate

Lab Sample ID: 680-109519-1

Date Collected: 01/29/15 16:38

Matrix: Water

Date Received: 01/31/15 08:52

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130		02/04/15 18:02	20
Dibromofluoromethane (Surr)	118		70 - 130		02/04/15 18:02	20
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		02/04/15 18:02	20
Toluene-d8 (Surr)	99		70 - 130		02/04/15 18:02	20

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	0.059		0.050		mg/L			02/11/15 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		70 - 130		02/11/15 12:18	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.8		0.095		mg/L		02/02/15 15:37	02/03/15 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	65		43 - 130	02/02/15 15:37	02/03/15 14:44	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/L		02/04/15 11:17	02/05/15 19:00	1
Arsenic	ND		0.50		mg/L		02/04/15 11:17	02/05/15 19:00	1
Barium	ND		0.50		mg/L		02/04/15 11:17	02/05/15 19:00	1
Beryllium	ND		0.50		mg/L		02/04/15 11:17	02/05/15 19:00	1
Cadmium	ND		0.50		mg/L		02/04/15 11:17	02/05/15 19:00	1
Chromium	ND		0.50		mg/L		02/04/15 11:17	02/05/15 19:00	1
Cobalt	ND		0.50		mg/L		02/04/15 11:17	02/05/15 19:00	1
Copper	ND		0.50		mg/L		02/04/15 11:17	02/05/15 19:00	1
Lead	ND		0.50		mg/L		02/04/15 11:17	02/05/15 19:00	1
Nickel	ND		0.50		mg/L		02/04/15 11:17	02/05/15 19:00	1
Selenium	ND		0.50		mg/L		02/04/15 11:17	02/05/15 19:00	1
Silver	ND		0.50		mg/L		02/04/15 11:17	02/05/15 19:00	1
Thallium	ND		0.50		mg/L		02/04/15 11:17	02/05/15 19:00	1
Vanadium	ND		0.50		mg/L		02/04/15 11:17	02/05/15 19:00	1
Zinc	ND		20		mg/L		02/04/15 11:17	02/05/15 19:00	1

TestAmerica Savannah

Method Summary

Client: Advanced Environmental Management Inc.
Project/Site: Henry (Asbury) Condensate 2015

TestAmerica Job ID: 680-109519-1

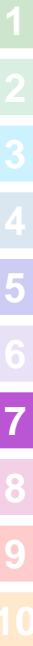
Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL SAV
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL SAV
6020A	Metals (ICP/MS)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Certification Summary

Client: Advanced Environmental Management Inc.
Project/Site: Henry (Asbury) Condensate 2015

TestAmerica Job ID: 680-109519-1

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	N/A	06-30-15
Georgia	State Program	4	803	06-30-15

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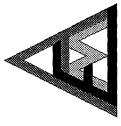
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ADVANCED ENVIRONMENTAL MANAGEMENT, INC.
 ECONOMICAL SOLUTIONS TO ENVIRONMENTAL PROBLEMS

Page 1 of 1
 3482 Keith Bridge Road #137 Cummings, Georgia 30041
 Phone # (770) 242-8282 Fax # (678) 648-1795

CHAIN OF CUSTODY

Results Sent to: (Client Contact): **Darrell L. Webb** LIMS System ID: _____
 Email address: **SWLabReports@aem-ga.com** Receiver's Initials/Temp: _____
 Contact Phone #: **770-242-8282** Fax #: **678-648-1795** Custody Seal(s): Y N Tape Work Order #: _____
 Project (Site) Name: **Henry (Asbury) Condensate 2015**

Line No.	Sampler(s): (signature)		Sampler(s): (printed)				Analysis Requested	Comments Attached (Y/N)	Lab ID:
	Sample ID #	Sample Date / Time	Composite	Matrix Grab	Sample Location	No. of Containers			
1	Condensate	1/29/15 / 16:38	X	W	Tank				
2									
3									
4									
5									
6									
7									
8									
9									
10									



1) Relinquished By: *Mark Bailey* Date / Time (1) Received By: *Mark Bailey* Date / Time 1/30/15
 Date / Time (2) Received By: _____
 Fed Ex / UPS / DHL / AAL Pickup / Haul / Other _____
 3) Relinquished By: *Sean Zand* Date / Time (3) Received By: *Mark Bailey* Date / Time 1/31/15
 Date / Time (4) Received By: _____
 Turnaround Time Requested: 14 Days

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)
 Preservation Codes: 1 = HCL / 2 = HNO₃ / 3 = H₂SO₄ / 4 = NaOH + NaAsO₂ / 5 = NaOH + ZnAc / 6 = Na₂S₂O₃ / 7 = NaHSO₄ / 8 = MeOH
0.8 g/c / 0.5 gal
680-109519



Login Sample Receipt Checklist

Client: Advanced Environmental Management Inc.

Job Number: 680-109519-1

Login Number: 109519

List Source: TestAmerica Savannah

List Number: 1

Creator: Kicklighter, Marilyn D

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	