



ADA COUNTY DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

200 West Front Street
Boise, Idaho 83702-7300

DATE: July 8, 2013
TO: ALL PLAN HOLDERS
FROM: ADA COUNTY PURCHASING
NO. OF PAGES: 27

RFP13060
Ada County Landfill Hydrogen Sulfide Scrubber Project

PROPOSAL DUE: 4:00 p.m. ~ July 15, 2013

ADDENDUM NO. 2

NOTICE TO PROPOSERS:

1. This addendum shall be considered part of the documents for the above-mentioned project as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original documents, this addendum shall govern and take precedent.
2. Proposers are hereby notified that they shall make any necessary adjustment in their estimates on account of this addendum. It will be construed that each proposal is submitted with full knowledge of all modifications and supplemental data specified herein.
3. **Proposers must acknowledge in their proposals that all addenda has been received or the proposal may be deemed non-responsive.**

Note to Proposers: The following questions were received after the cut-off date. The County believes that the answers may be important to your proposal and are being provided in this addendum.

➤ **Questions Received After to the Cut-off for Questions June 27, 2013:**

Board of County Commissioners (208) 287-7000	Human Resources (208) 287-7123 Fax (208) 287-6999	Employee Benefits (208) 287-7123 Fax (208) 287-5729	Risk Management (208) 287-7123 Fax (208) 287-7129	Business Process Services (208) 287-7123 Fax (208) 287-7159	Communications (208) 287-7123 Fax (208) 287-7159	Purchasing (208) 287-7123 Fax (208) 287-7149
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Questions Received After to the Cut-off for Questions June 27, 2013

1. We have a question regarding Part I, Request for Proposal, Supplemental Proposal Content Worksheet, Item 4.2, 4)page 31 “ 4) Explanation and description of the key legal aspects including ownership, responsibilities, liabilities, and risk management.”

Can you provide further information as to what further explanations and descriptions are being requested by this request? The county contract with warranties appears to cover these issues? There is no specific response being sought here. If the proposed scrubber system has any peculiar or unique aspects that the Owner should be aware of that would fall into these categories, then list them in your proposal. The County’s Contract accurately outlines the Contractor’s duties and responsibilities, including warranties and insurance.

2. I’m wondering if you have a full NMOC evaluation on the gas?
Answer: The landfill gas is sampled and tested for NMOCs annually around August-September. The 2012 Lab Report is provided for proposers’ information and is attached. Proposer’s are responsible for conducting their own laboratory investigations to be relied on for the scrubber systems design.

3. Who is doing the SCADA work for this project?
Answer: Each bidder will do their own PLC programming and HMI development for the scrubber system. The Scrubber PLC code and new and/or modified HMI screens will be submitted by the contractor and reviewed by Control Engineers (Owner’s Representative). Once approved, the contractor will incorporate the HMI screens into the existing system. Any required programming changes to the existing flare PLC will be done by Control Engineers.

Board of County Commissioners (208) 287-7000	Human Resources (208) 287-7123 Fax (208) 287-6999	Employee Benefits (208) 287-7123 Fax (208) 287-5729	Risk Management (208) 287-7123 Fax (208) 287-7129	Business Process Services (208) 287-7123 Fax (208) 287-7159	Communications (208) 287-7123 Fax (208) 287-7159	Purchasing (208) 287-7123 Fax (208) 287-7149
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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Costa Mesa

3585 Cadillac Ave

Suite A

Costa Mesa, CA 92626

Tel: (714)258-8610

TestAmerica Job ID: 340-3314-1

Client Project/Site: ACLF

For:

CH2M Hill, Inc.

322 E. Front St.

Suite 200

Boise, Idaho 83702

Attn: Jeff Osterman

Marisol Tabirara

Authorized for release by:

8/23/2012 3:06:09 PM

Marisol (Sonia) Tabirara

Project Manager I

sonia.tabirara@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

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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- 3
- 4
- 5
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- 7
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- 14
- 15
- 16



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	9
QC Association Summary	10
Lab Chronicle	11
Certification Summary	12
Method Summary	13
Sample Summary	14
Chain of Custody	15
Receipt Checklists	16
Field Data Sheets	17
Clean Canister Certification	20
Pre-Ship Certification	20
Clean Canister Data	21

Definitions/Glossary

Client: CH2M Hill, Inc.
Project/Site: ACLF

TestAmerica Job ID: 340-3314-1

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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: CH2M Hill, Inc.
Project/Site: ACLF

TestAmerica Job ID: 340-3314-1

Job ID: 340-3314-1

Laboratory: TestAmerica Costa Mesa

Narrative

Job Narrative
340-3314-1

Comments

No additional comments.

Air - GC VOA

No analytical or quality issues were noted.

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Detection Summary

Client: CH2M Hill, Inc.
Project/Site: ACLF

TestAmerica Job ID: 340-3314-1

Client Sample ID: NMOC #01

Lab Sample ID: 340-3314-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Nonmethane Organic Compounds as Methane	1300		60	ppm v/v	1.99		25C MOD	Total/NA
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Nonmethane Organic Compounds as Methane	1300		60	ppm-C	1.99		25C MOD	Total/NA

Client Sample ID: NMOC #02

Lab Sample ID: 340-3314-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Nonmethane Organic Compounds as Methane	1800		59	ppm v/v	1.95		25C MOD	Total/NA
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Nonmethane Organic Compounds as Methane	1800		59	ppm-C	1.95		25C MOD	Total/NA

Client Sample ID: NMOC #03

Lab Sample ID: 340-3314-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Nonmethane Organic Compounds as Methane	2000		63	ppm v/v	2.09		25C MOD	Total/NA
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Nonmethane Organic Compounds as Methane	2000		63	ppm-C	2.09		25C MOD	Total/NA

Client Sample Results

Client: CH2M Hill, Inc.
Project/Site: ACLF

TestAmerica Job ID: 340-3314-1

Client Sample ID: NMOC #01

Lab Sample ID: 340-3314-1

Date Collected: 08/06/12 10:16

Matrix: Air

Date Received: 08/07/12 10:10

Sample Container: Summa Canister 6L

Method: 25C MOD - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nonmethane Organic Compounds as Methane	1300		60	ppm v/v			08/22/12 19:52	1.99
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nonmethane Organic Compounds as Methane	1300		60	ppm-C			08/22/12 19:52	1.99

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Client Sample Results

Client: CH2M Hill, Inc.
Project/Site: ACLF

TestAmerica Job ID: 340-3314-1

Client Sample ID: NMOC #02

Lab Sample ID: 340-3314-2

Date Collected: 08/06/12 11:16

Matrix: Air

Date Received: 08/07/12 10:10

Sample Container: Summa Canister 6L

Method: 25C MOD - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nonmethane Organic Compounds as Methane	1800		59	ppm v/v			08/22/12 20:34	1.95
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nonmethane Organic Compounds as Methane	1800		59	ppm-C			08/22/12 20:34	1.95

Client Sample Results

Client: CH2M Hill, Inc.
Project/Site: ACLF

TestAmerica Job ID: 340-3314-1

Client Sample ID: NMOC #03

Lab Sample ID: 340-3314-3

Date Collected: 08/06/12 12:16

Matrix: Air

Date Received: 08/07/12 10:10

Sample Container: Summa Canister 6L

Method: 25C MOD - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nonmethane Organic Compounds as Methane	2000		63	ppm v/v			08/22/12 21:10	2.09
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nonmethane Organic Compounds as Methane	2000		63	ppm-C			08/22/12 21:10	2.09

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QC Sample Results

Client: CH2M Hill, Inc.
Project/Site: ACLF

TestAmerica Job ID: 340-3314-1

Method: 25C MOD - Nonmethane Organic Compounds (NMOC)

Lab Sample ID: MB 340-2450/8

Matrix: Air

Analysis Batch: 2450

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nonmethane Organic Compounds as Methane	ND		30	ppm v/v			08/22/12 12:22	1

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nonmethane Organic Compounds as Methane	ND		30	ppm-C			08/22/12 12:22	1

Lab Sample ID: LCS 340-2450/3

Matrix: Air

Analysis Batch: 2450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nonmethane Organic Compounds as Methane	901	975		ppm v/v		108	80 - 137

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nonmethane Organic Compounds as Methane	900	975		ppm-C		108	80 - 137

Lab Sample ID: LCSD 340-2450/4

Matrix: Air

Analysis Batch: 2450

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nonmethane Organic Compounds as Methane	901	971		ppm v/v		108	80 - 137	0	20

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nonmethane Organic Compounds as Methane	900	971		ppm-C		108	80 - 137	0	20

QC Association Summary

Client: CH2M Hill, Inc.
Project/Site: ACLF

TestAmerica Job ID: 340-3314-1

Air - GC VOA

Analysis Batch: 2450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
340-3314-1	NMOC #01	Total/NA	Air	25C MOD	
340-3314-2	NMOC #02	Total/NA	Air	25C MOD	
340-3314-3	NMOC #03	Total/NA	Air	25C MOD	
LCS 340-2450/3	Lab Control Sample	Total/NA	Air	25C MOD	
LCSD 340-2450/4	Lab Control Sample Dup	Total/NA	Air	25C MOD	
MB 340-2450/8	Method Blank	Total/NA	Air	25C MOD	

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Lab Chronicle

Client: CH2M Hill, Inc.
Project/Site: ACLF

TestAmerica Job ID: 340-3314-1

Client Sample ID: NMOC #01

Lab Sample ID: 340-3314-1

Date Collected: 08/06/12 10:16

Matrix: Air

Date Received: 08/07/12 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	25C MOD		1.99	2450	08/22/12 19:52	EI	TAL LA
Instrument ID: GC8								

Client Sample ID: NMOC #02

Lab Sample ID: 340-3314-2

Date Collected: 08/06/12 11:16

Matrix: Air

Date Received: 08/07/12 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	25C MOD		1.95	2450	08/22/12 20:34	EI	TAL LA
Instrument ID: GC8								

Client Sample ID: NMOC #03

Lab Sample ID: 340-3314-3

Date Collected: 08/06/12 12:16

Matrix: Air

Date Received: 08/07/12 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	25C MOD		2.09	2450	08/22/12 21:10	EI	TAL LA
Instrument ID: GC8								

Laboratory References:

TAL LA = TestAmerica Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626, TEL (714)258-8610

Certification Summary

Client: CH2M Hill, Inc.
Project/Site: ACLF

TestAmerica Job ID: 340-3314-1

Laboratory: TestAmerica Costa Mesa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0727	02-09-13
Florida	NELAC	4	E87652	06-30-13
L-A-B	DoD ELAP		L2273	11-09-13
Louisiana	NELAC	6	01948	06-30-13
New York	NELAC	2	11851	04-01-13
Oregon	NELAC	10	CA200013	07-19-13
Washington	State Program	10	C579	11-29-12

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Method Summary

Client: CH2M Hill, Inc.
Project/Site: ACLF

TestAmerica Job ID: 340-3314-1

Method	Method Description	Protocol	Laboratory
25C MOD	Nonmethane Organic Compounds (NMOC)	EPA	TAL LA

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL LA = TestAmerica Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626, TEL (714)258-8610



Sample Summary

Client: CH2M Hill, Inc.
Project/Site: ACLF

TestAmerica Job ID: 340-3314-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
340-3314-1	NMOC #01	Air	08/06/12 10:16	08/07/12 10:10
340-3314-2	NMOC #02	Air	08/06/12 11:16	08/07/12 10:10
340-3314-3	NMOC #03	Air	08/06/12 12:16	08/07/12 10:10

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Client Contact Information Company: CH2M HILL/ACUF Address: 372 EAST POINT ST 502100 City/State/Zip: BOISE ID 83702 Phone: 208-345-5310 FAX: 208-345-5315 Project Name: Site: PO #		Project Manager: JEFF OSTERMAN Phone: 708-345-5310 Email: Site Contact: SONIA TABIRARA LAB Contact: SONIA TABIRARA Analysis Turnaround Time Standard (Specify) <input checked="" type="checkbox"/> X Rush (Specify)		Project Manager: JEFF OSTERMAN Phone: 708-345-5310 Email:		Samples Collected By: MICHAEL WIRTZ of 1 COCS															
Sample Identification UMC #01 NMOG #02 NMOG #03		Sample Date(s) 8/6/12 8/6/12 8/6/12		Time Start 10:16 11:16 12:16		Time Stop 10:16 11:16 12:16		Canister Vacuum in Field, "Hg (Start) 24 28 28		Canister Vacuum in Field, "Hg (Stop) 2 2 2		Flow Controller ID 34000543 34000552 34001575		Canister ID 34000543 34000552 34001575		TO-15 TO-14A TO-3 EPA 3C EPA 25C ASTM D-1946		Other (Please specify in notes section) Other (Please specify in notes section) Other (Please specify in notes section)		Ambient Air Indoor Air Sample Type Landfill Gas Soil Gas	
Special Instructions/QC Requirements & Comments: EMAIL RESULTS TO: MIKE.WIRTZ@CH2M.COM JEFF, OSTERMAN@CH2M.COM																					
Samples Shipped by: MICHAEL WIRTZ		Date/Time: 8/6/12 @ 1400		Samples Received by: [Signature]		Date/Time: 8/7/12 10:10		Samples Relinquished by:		Date/Time:		Relinquished by:		Date/Time:		Received by:		Date/Time:			
Lab Use Only		Shipper Name:		Opened by:		Condition:		Received by:		Date/Time:		Relinquished by:		Date/Time:		Received by:		Date/Time:			



Login Sample Receipt Checklist

Client: CH2M Hill, Inc.

Job Number: 340-3314-1

Login Number: 3314

List Source: TestAmerica Costa Mesa

List Number: 1

Creator: Morales, Sergio

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
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 sample IDs on the containers 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

CANISTER FIELD DATA RECORD

CLIENT: CH2M Hill
 CANISTER SERIAL #: 34000543
 DATE CLEANED: 340-3169
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: _____
 Duration of comp. : _____ Hrs. / mins.
 Flow setting: _____ ml/min
 Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	8/3/12	JG
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION				
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.03	8/10/12	JG	
FINAL PRESSURE (PSIA)	24.00	8/11/12	JG	

Pressurization Gas: N₂

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
		15 Min.
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

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CANISTER FIELD DATA RECORD

CLIENT: CH2M Hill
 CANISTER SERIAL #: 34000052
 DATE CLEANED: 340-3169
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: _____
 Duration of comp. : _____ Hrs. / mins.
 Flow setting: _____ ml/min
 Initials: _____

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	8/3/12	JG
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION				
INITIAL VACUUM (Inches Hg / <u>PSIA</u>) (circle unit used)	12.30	8/11/12	JG	
FINAL PRESSURE (PSIA)	24.04	8/11/12	JG	

Pressurization Gas: N₂

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
30 Min.	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

CANISTER FIELD DATA RECORD

CLIENT: CH2M Hill
 CANISTER SERIAL #: 34001575
 DATE CLEANED: 340-3169
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: _____
 Duration of comp. : _____ Hrs. / mins.
 Flow setting: _____ ml/min
 Initials: _____

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	8/3/12	JG
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION				
INITIAL VACUUM (Inches Hg/ PSIA (circle unit used))	12.02	8/11/12	JG	
FINAL PRESSURE (PSIA)	25.16	8/11/12	JG	

Pressurization Gas: N₂

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
		15 Min.
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

CANISTER QC CERTIFICATION



Certification Type: TO-15

Date Cleaned/Batch B072712A 340-3169

Date of QC 07-30-12

Data File Number WB07303 (MS6)

CANISTER ID NUMBERS

*34000125
| 0052
| 0268
| 0784
| 0581
↓ 0543

34000464
| 0529
| 1575
| 0447
| 1407
↓ 1582

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "Certification Type" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

[Signature]
Reviewed By:

07-31-12
Date:

N:\COIN\DOCS\TestAmerica\DOCS\Can QC Cert 20070712.doc

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-3169-1
 SDG No.: _____
 Client Sample ID: 34000125 Lab Sample ID: 340-3169-1
 Matrix: Air Lab File ID: MB07303.d
 Analysis Method: TO-15 Date Collected: 07/27/2012 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 07/30/2012 16:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: See SOP ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 2250 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		0.80	0.30
107-02-8	Acrolein	ND		4.0	2.0
107-13-1	Acrylonitrile	ND		2.0	0.50
107-05-1	Allyl chloride	ND		0.50	0.25
71-43-2	Benzene	ND		0.30	0.15
100-44-7	Benzyl chloride	ND		0.80	0.25
75-27-4	Bromodichloromethane	ND		0.30	0.15
75-25-2	Bromoform	ND		0.40	0.20
74-83-9	Bromomethane	ND		0.80	0.20
106-99-0	1,3-Butadiene	ND		0.80	0.40
106-97-8	n-Butane	ND		0.50	0.25
78-93-3	2-Butanone (MEK)	ND		0.80	0.40
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0	0.80
104-51-8	n-Butylbenzene	ND		0.50	0.25
135-98-8	sec-Butylbenzene	ND		0.50	0.25
98-06-6	tert-Butylbenzene	ND		0.80	0.40
75-15-0	Carbon disulfide	ND		0.80	0.20
56-23-5	Carbon tetrachloride	ND		0.80	0.25
75-00-3	Chloroethane	ND		0.80	0.20
108-90-7	Chlorobenzene	ND		0.30	0.10
75-45-6	Chlorodifluoromethane	ND		1.0	0.40
67-66-3	Chloroform	ND		0.30	0.10
74-87-3	Chloromethane	ND		0.80	0.20
95-49-8	2-Chlorotoluene	ND		0.50	0.25
110-82-7	Cyclohexane	ND		0.50	0.25
124-48-1	Dibromochloromethane	ND		0.40	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.20
74-95-3	Dibromomethane	ND		0.40	0.20
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40	0.20
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.15
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.15
107-06-2	1,2-Dichloroethane	ND		0.80	0.30

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-3169-1
 SDG No.: _____
 Client Sample ID: 34000125 Lab Sample ID: 340-3169-1
 Matrix: Air Lab File ID: MB07303.d
 Analysis Method: TO-15 Date Collected: 07/27/2012 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 07/30/2012 16:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: See SOP ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 2250 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.20
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.20
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.20
78-87-5	1,2-Dichloropropane	ND		0.40	0.20
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.20
123-91-1	1,4-Dioxane	ND		0.80	0.40
141-78-6	Ethyl acetate	ND		0.30	0.15
100-41-4	Ethylbenzene	ND		0.40	0.15
622-96-8	4-Ethyltoluene	ND		0.40	0.20
142-82-5	n-Heptane	ND		1.0	0.30
87-68-3	Hexachlorobutadiene	ND		0.40	0.20
110-54-3	n-Hexane	ND		1.0	0.40
591-78-6	2-Hexanone	ND		0.40	0.25
98-82-8	Isopropylbenzene	ND		0.80	0.25
99-87-6	4-Isopropyltoluene	ND		0.80	0.25
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.30
80-62-6	Methyl methacrylate	ND		0.40	0.20
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.20
75-09-2	Methylene chloride	ND		0.40	0.20
98-83-9	alpha-Methylstyrene	ND		0.40	0.15
91-20-3	Naphthalene	ND		2.0	0.80
111-65-9	n-Octane	ND		0.40	0.15
109-66-0	n-Pentane	ND		1.0	0.30
115-07-1	Propylene	ND		1.0	0.50
103-65-1	n-Propylbenzene	ND		0.50	0.20
100-42-5	Styrene	ND		0.40	0.20
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.10
127-18-4	Tetrachloroethene	ND		0.40	0.20
109-99-9	Tetrahydrofuran	ND		2.0	0.50
108-88-3	Toluene	ND		0.40	0.20
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.20
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.15
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-3169-1
 SDG No.: _____
 Client Sample ID: 34000125 Lab Sample ID: 340-3169-1
 Matrix: Air Lab File ID: MB07303.d
 Analysis Method: TO-15 Date Collected: 07/27/2012 00:00
 Sample wt/vol: 250(mL) Date Analyzed: 07/30/2012 16:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: See SOP ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 2250 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.20
75-69-4	Trichlorofluoromethane	ND		0.40	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.20
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	0.25
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.25
540-84-1	2,2,4-Trimethylpentane	ND		0.50	0.20
108-05-4	Vinyl acetate	ND		0.80	0.20
593-60-2	Vinyl bromide	ND		0.40	0.20
75-01-4	Vinyl chloride	ND		0.20	0.10
179601-23-1	m,p-Xylene	ND		0.80	0.20
95-47-6	o-Xylene	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Lachrom\ChromData\MSG\20120730-1581.b\MB07303.d
 Lims ID: 340-3169-A-1 Client ID: 34000125
 Inject. Date: 30-Jul-2012 16:02:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 340-3169-A-1
 Misc. Info.: 340-0001581-010
 Operator: DLK Instrument ID: MSG
 Vol. Injected: 1.0000 ALS Bottle#: 1
 Lims Batch ID: 2250 Lims Sample ID: 10
 Detector: MS SCAN
 Method: \\Lachrom\ChromData\MSG\20120730-1581.b\TO-15_MSG.m
 Method Label: TO-15/TO-14A
 Last Update: 31-Jul-2012 07:11:26 Calib Date: 24-Jul-2012 16:10:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Lachrom\ChromData\MSG\20120724-1547.b\IC07248.d
 Limit Group: TO-15-TO-15_MOD_ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Process Host: CORP-CTX-12

First Level Reviewer: kammererd Date: 31-Jul-2012 07:11:26

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
* 57 Chlorobromomethane (IS)	49	11.361	11.367	-0.006	96	56300	4.00	
\$ 64 1,2-Dichloroethane-d4 (Surr)	65	12.154	12.160	-0.006	93	48753	3.59	
* 70 1,4-Difluorobenzene	114	12.750	12.756	-0.006	95	125633	4.00	
\$ 80 Toluene-d8 (Surr)	98	14.883	14.889	-0.006	97	124870	3.68	
* 89 Chlorobenzene-d5 (IS)	117	16.917	16.923	-0.006	87	110387	4.00	
\$ 100 4-Bromofluorobenzene (Surr)	95	18.548	18.553	-0.005	89	86948	3.87	

Report Date: 31-Jul-2012 07:11:26

Chrom Revision: 2.0 15-Jul-2012 07:31:48

Data File: \\Lachrom\ChromData\MSG\20120730-1581.b\MB07303.d

Injection Date: 30-Jul-2012 16:02:30

Limit Group: TO-15-TO-15_MOD_ICAL

Client ID: 34000125

Instrument ID: MSG

Lims Batch ID: 2250

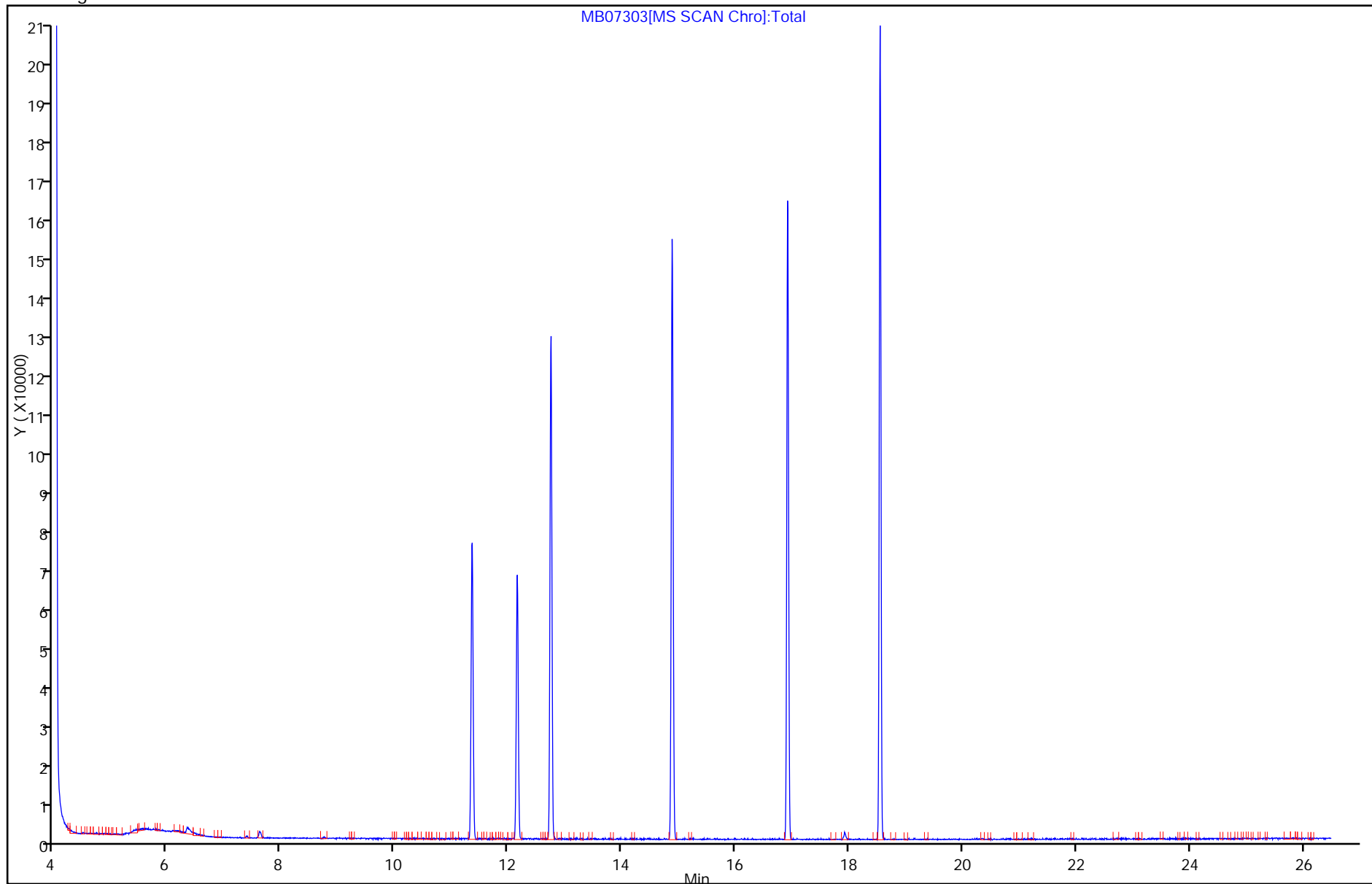
Lims Sample ID: 10

Operator ID: DLK

Column Type: RTX-Volatiles

Column Dia: 0.32 mm

Y Scaling:



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