

Wickham, Jerry, Env. Health

From: Schultz, Robert [Robert.Schultz@amec.com]
Sent: Thursday, April 21, 2011 2:51 PM
To: Denis Brown (denis.l.brown@shell.com); Schaefer, Peter; Wickham, Jerry, Env. Health
Cc: Torrens, Jake
Subject: Former Shell, 2301-2307 Lincoln Ave., Alameda
Attachments: J34569-1 Std_Tal_L2 Final Report.pdf; 720-34569-1_Geomatrix.csv

Gentlemen:

Please find attached the results of our split sampling from Shell's excavation at the above-referenced property. Samples were collected directly from the backhoe bucket. When the bucket was brought to the surface, approximately the top 6 inches of soil was scraped away using a spade. The EnCore sampler was advanced following the EnCore sampler instruction manual. Three 5-gram EnCore samples were collected per sample location. The Encore T-handle and spade were decontaminated before each use using a three stage wash (water, water and Alconox, and water rinse). Each individual EnCore was placed in the laboratory-provided bag, labeled and sealed with a custody seal, and all three from each location were placed into a labeled zip lock bag, and placed in an ice cooled chest under standard chain of custody protocol. Standing water was present in the excavation at approximately 7 feet bgs. Samples were collected from excavation sidewall soil at approximately 7 feet bgs.

Please contact us at 510-663-4100 should you have questions or require further information.

Sincerely,
Robert W. Schultz, CHG
AMEC Geomatrix, Inc.

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ANALYTICAL REPORT

Job Number: 720-34569-1
Job Description: Sebanc-Alameda

For:
AMEC Geomatrix Inc.
2101 Webster Street, 12th Floor
Oakland, CA 94612
Attention: Mr. Jake Torrens

Surinder Sidhu

Approved for release.
Surinder Sidhu
Customer Service Manager
4/15/2011 4:16 PM

Designee for
Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com
04/15/2011

CA ELAP Certification # 2496

The Chain(s) of Custody are included and are an integral part of this report.

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A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

TestAmerica Laboratories, Inc.

TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Job Narrative
720-34569-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

Method(s) 8260B: Surrogate recovery for the following sample 720-34569-1 was outside control limits: EX-S-7.0 (720-34569-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: AMEC Geomatrix Inc.

Job Number: 720-34569-1

Lab Sample ID	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-34569-1	EX-S-7.0				
Benzene		13	5.4	ug/Kg	8260B/CA_LUFTMS
Ethylbenzene		35	5.4	ug/Kg	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C5-C12		5200	270	ug/Kg	8260B/CA_LUFTMS
720-34569-3	EX-W-7.0				
Ethylbenzene		21	4.3	ug/Kg	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C5-C12		2400	210	ug/Kg	8260B/CA_LUFTMS

METHOD SUMMARY

Client: AMEC Geomatrix Inc.

Job Number: 720-34569-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
8260B / CA LUFT MS	TAL SF	SW846 8260B/CA_LUFTMS	
Closed System Purge and Trap	TAL SF		SW846 5035

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

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

SAMPLE SUMMARY

Client: AMEC Geomatrix Inc.

Job Number: 720-34569-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-34569-1	EX-S-7.0	Solid	04/14/2011 1239	04/14/2011 1625
720-34569-2	EX-SW-7.0	Solid	04/14/2011 1250	04/14/2011 1625
720-34569-3	EX-W-7.0	Solid	04/14/2011 1305	04/14/2011 1625

Analytical Data

Client: AMEC Geomatrix Inc.

Job Number: 720-34569-1

Client Sample ID: EX-S-7.0

Lab Sample ID: 720-34569-1

Date Sampled: 04/14/2011 1239

Client Matrix: Solid

Date Received: 04/14/2011 1625

8260B/CA_LUFTMS 8260B / CA LUFT MS

Analysis Method: 8260B/CA_LUFTMS Analysis Batch: 720-89656 Instrument ID: SAT 3900A
Prep Method: 5035 Prep Batch: 720-89701 Lab File ID: 34569-A-1 4-14-2011
Dilution: 1.0 Initial Weight/Volume: 4.66 g
Analysis Date: 04/14/2011 2050 Final Weight/Volume: 10 mL
Prep Date: 04/14/2011 1800

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
MTBE		ND		5.4
Benzene		13		5.4
Ethylbenzene		35		5.4
Toluene		ND		5.4
Xylenes, Total		ND		11
Gasoline Range Organics (GRO)-C5-C12		5200		270

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	127	X	65 - 117
1,2-Dichloroethane-d4 (Surr)	104		73 - 140
Toluene-d8 (Surr)	98		80 - 112

Analytical Data

Client: AMEC Geomatrix Inc.

Job Number: 720-34569-1

Client Sample ID: EX-SW-7.0

Lab Sample ID: 720-34569-2

Date Sampled: 04/14/2011 1250

Client Matrix: Solid

Date Received: 04/14/2011 1625

8260B/CA_LUFTMS 8260B / CA LUFT MS

Analysis Method: 8260B/CA_LUFTMS Analysis Batch: 720-89656 Instrument ID: SAT 3900A
Prep Method: 5035 Prep Batch: 720-89701 Lab File ID: 34569-a-2 4-14-2011
Dilution: 1.0 Initial Weight/Volume: 4.86 g
Analysis Date: 04/14/2011 2113 Final Weight/Volume: 10 mL
Prep Date: 04/14/2011 1800

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
MTBE		ND		5.1
Benzene		ND		5.1
Ethylbenzene		ND		5.1
Toluene		ND		5.1
Xylenes, Total		ND		10
Gasoline Range Organics (GRO)-C5-C12		ND		260

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	90		65 - 117
1,2-Dichloroethane-d4 (Surr)	105		73 - 140
Toluene-d8 (Surr)	98		80 - 112

Analytical Data

Client: AMEC Geomatrix Inc.

Job Number: 720-34569-1

Client Sample ID: EX-W-7.0

Lab Sample ID: 720-34569-3

Date Sampled: 04/14/2011 1305

Client Matrix: Solid

Date Received: 04/14/2011 1625

8260B/CA_LUFTMS 8260B / CA LUFT MS

Analysis Method:	8260B/CA_LUFTMS	Analysis Batch:	720-89656	Instrument ID:	SAT 3900A
Prep Method:	5035	Prep Batch:	720-89701	Lab File ID:	34569-A-3 4-14-2011
Dilution:	1.0			Initial Weight/Volume:	5.86 g
Analysis Date:	04/14/2011 2137			Final Weight/Volume:	10 mL
Prep Date:	04/14/2011 1800				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
MTBE		ND		4.3
Benzene		ND		4.3
Ethylbenzene		21		4.3
Toluene		ND		4.3
Xylenes, Total		ND		8.5
Gasoline Range Organics (GRO)-C5-C12		2400		210

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	112		65 - 117
1,2-Dichloroethane-d4 (Surr)	99		73 - 140
Toluene-d8 (Surr)	95		80 - 112

DATA REPORTING QUALIFIERS

Client: AMEC Geomatrix Inc.

Job Number: 720-34569-1

Lab Section	Qualifier	Description
GC/MS VOA	X	Surrogate is outside control limits

Quality Control Results

Client: AMEC Geomatrix Inc.

Job Number: 720-34569-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-89656					
LCS 720-89701/2-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-89701
LCS 720-89701/4-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-89701
LCSD 720-89701/3-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-89701
LCSD 720-89701/5-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-89701
MB 720-89701/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-89701
720-34569-1	EX-S-7.0	T	Solid	8260B/CA_LUFT	720-89701
720-34569-2	EX-SW-7.0	T	Solid	8260B/CA_LUFT	720-89701
720-34569-3	EX-W-7.0	T	Solid	8260B/CA_LUFT	720-89701
Prep Batch: 720-89701					
LCS 720-89701/2-A	Lab Control Sample	T	Solid	5035	
LCS 720-89701/4-A	Lab Control Sample	T	Solid	5035	
LCSD 720-89701/3-A	Lab Control Sample Duplicate	T	Solid	5035	
LCSD 720-89701/5-A	Lab Control Sample Duplicate	T	Solid	5035	
MB 720-89701/1-A	Method Blank	T	Solid	5035	
720-34569-1	EX-S-7.0	T	Solid	5035	
720-34569-2	EX-SW-7.0	T	Solid	5035	
720-34569-3	EX-W-7.0	T	Solid	5035	

Report Basis

T = Total

Quality Control Results

Client: AMEC Geomatrix Inc.

Job Number: 720-34569-1

Method Blank - Batch: 720-89701

Method: 8260B/CA_LUFTMS

Preparation: 5035

Lab Sample ID: MB 720-89701/1-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/14/2011 1816
Prep Date: 04/14/2011 1600
Leach Date: N/A

Analysis Batch: 720-89656
Prep Batch: 720-89701
Leach Batch: N/A
Units: ug/Kg

Instrument ID: SAT 3900A
Lab File ID: MB 4-14-2011 6;16;10
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
MTBE	ND		5.0
Benzene	ND		5.0
Ethylbenzene	ND		5.0
Toluene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	ND		250

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	99	65 - 117
1,2-Dichloroethane-d4 (Surr)	97	73 - 140
Toluene-d8 (Surr)	100	80 - 112

Quality Control Results

Client: AMEC Geomatrix Inc.

Job Number: 720-34569-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-89701**

**Method: 8260B/CA_LUFTMS
Preparation: 5035**

LCS Lab Sample ID:	LCS 720-89701/2-A	Analysis Batch:	720-89656	Instrument ID:	SAT 3900A
Client Matrix:	Solid	Prep Batch:	720-89701	Lab File ID:	LCS 4-14-2011 7:03;25
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	04/14/2011 1903	Units:	ug/Kg	Final Weight/Volume:	10 mL
Prep Date:	04/14/2011 1600				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 720-89701/3-A	Analysis Batch:	720-89656	Instrument ID:	SAT 3900A
Client Matrix:	Solid	Prep Batch:	720-89701	Lab File ID:	LCSD 4-14-2011
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	04/14/2011 1927	Units:	ug/Kg	Final Weight/Volume:	10 mL
Prep Date:	04/14/2011 1600				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
MTBE	105	105	71 - 144	0	20		
Benzene	104	102	82 - 124	2	20		
Ethylbenzene	104	110	80 - 137	5	20		
Toluene	105	109	83 - 128	3	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	109		101	65 - 117			
1,2-Dichloroethane-d4 (Surr)	100		92	73 - 140			
Toluene-d8 (Surr)	98		98	80 - 112			

Quality Control Results

Client: AMEC Geomatrix Inc.

Job Number: 720-34569-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-89701**

**Method: 8260B/CA_LUFTMS
Preparation: 5035**

LCS Lab Sample ID: LCS 720-89701/4-A	Analysis Batch: 720-89656	Instrument ID: SAT 3900A
Client Matrix: Solid	Prep Batch: 720-89701	Lab File ID: LCS GAS 4-14-2011
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 g
Analysis Date: 04/14/2011 1950	Units: ug/Kg	Final Weight/Volume: 10 mL
Prep Date: 04/14/2011 1600		
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 720-89701/5-A	Analysis Batch: 720-89656	Instrument ID: SAT 3900A
Client Matrix: Solid	Prep Batch: 720-89701	Lab File ID: LCSD GAS 4-14-2011
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 g
Analysis Date: 04/14/2011 2014	Units: ug/Kg	Final Weight/Volume: 10 mL
Prep Date: 04/14/2011 1600		
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	94	96	68 - 115	2	20		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	102		102	65 - 117			
1,2-Dichloroethane-d4 (Surr)	103		103	73 - 140			
Toluene-d8 (Surr)	97		107	80 - 112			

CHAIN-OF-CUSTODY RECORD

OAK 15528

PROJECT NAME: Sebanco-Alameda DATE: 4/14/2011 PAGE 1 OF 1
 PROJECT NUMBER: 011037001.3 LABORATORY NAME: Test America CLIENT INFORMATION: REPORTING REQUIREMENTS: 130858
 RESULTS TO: Jake.Torrens@amec.com LABORATORY ADDRESS: 720-34569
 TURNAROUND TIME: RUSH 24 HR
 SAMPLE SHIPMENT METHOD: Courier LABORATORY CONTACT: Arsene Salimov GEOTRACKER REQUIRED YES NO
 LABORATORY PHONE NUMBER: SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):			ANALYSES										ADDITIONAL COMMENTS
DATE	TIME	SAMPLE NUMBER											
<u>4/14/11</u>	<u>1239</u>	<u>EX-S-7.0</u>	 										<u>2.9°C</u>
<u>4/14/11</u>	<u>1250</u>	<u>EX-SW-7.0</u>											
<u>4/14/11</u>	<u>1305</u>	<u>EX-W-7.0</u>											
			<p style="text-align: center; font-size: 2em; font-weight: bold;">RUSH</p>										

RELINQUISHED BY: <u>[Signature]</u>	DATE: <u>4/14/11</u>	TIME: <u>1510</u>	RECEIVED BY: <u>[Signature]</u>	DATE: <u>4/14/11</u>	TIME: <u>1510</u>	TOTAL NUMBER OF CONTAINERS: <u>9</u>
PRINTED NAME: <u>MARILENE McCLARTNEY</u>			PRINTED NAME: <u>Bryan Thomas</u>			SAMPLING COMMENTS: <u>* TPH9, BTEX, & MTBE only</u>
COMPANY: <u>AMEC Geomatrix</u>			COMPANY: <u>Test America</u>			<u>24 HR RUSH</u>
SIGNATURE: <u>[Signature]</u>			SIGNATURE: <u>[Signature]</u>			
PRINTED NAME: <u>Bryan Thomas</u>	DATE: <u>4/14/11</u>	TIME: <u>1625</u>	PRINTED NAME: <u>Mullen</u>	DATE: <u>4/14/11</u>	TIME: <u>1625</u>	
COMPANY: <u>Test America</u>			COMPANY: <u>Test America</u>			
SIGNATURE:			SIGNATURE:			
PRINTED NAME:			PRINTED NAME:			
COMPANY:			COMPANY:			

2101 Webster Street, 12th Floor
 Oakland, California 94612-3066
 Tel 510.663.4100 Fax 510.663.4141



Login Sample Receipt Checklist

Client: AMEC Geomatrix Inc.

Job Number: 720-34569-1

Login Number: 34569

List Source: TestAmerica San Francisco

List Number: 1

Creator: Mullen, Joan

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.	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 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.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	