### Wickham, Jerry, Env. Health

From: Jason Duda [jduda@broadbentinc.com]
Sent: Wednesday, October 03, 2012 12:59 PM

To: Wickham, Jerry, Env. Health Cc: 'Matt Herrick'; Shannon Couch

**Subject:** BP Station #771 (ACEH Case No. RO0000200) **Attachments:** J22155-1 UDS Level 2 Report Final Report.pdf

Hello Jerry,

I wanted to provide you with the laboratory analytical results from the re-sampling of well MW-7 at BP Station #771 located at 899 Rincon Ave., Livermore. As you may recall, a small amount of LNAPL (0.01 ft) was observed within MW-7 on July 25, 2012 during Third Quarter 2012 sampling activities. Broadbent returned to the Site on August 31, 2012 to measure the LNAPL thickness and conduct bailing activities in order to collect a sample from MW-7. Adjacent wells MW-2, MW-4, and VW-1 were also gauged for the presence of LNAPL during this visit. LNAPL was not observed within the adjacent wells but was still present within MW-7 at an approximate thickness of 0.01 ft. Approximately 1.5 gallons of LNAPL/water mixture was bailed from the well prior to sample collection. However, a distinctive sheen was still visible at MW-7, even though the interface probe did not detect LNAPL.

After evaluation of the attached analytical compared to historic concentrations within MW-7, the LNAPL observed does not appear to be the result of a new release. The GRO concentration (15,000  $\mu$ g/L) is an order of magnitude greater than recently observed (2,100  $\mu$ g/L in First Quarter 2012), but the remaining constituent concentrations, including MTBE and TBA, are comparable to recent analytical data. Gettler-Ryan Inc. also conducted testing of the UST system following the observance of LNAPL within MW-7. The results of the testing activities did not indicate that the UST system was compromised. Please let me know if you have any additional questions or concerns. Thank you. Take care.

#### **Jason Duda**

**Project Scientist** 

1324 Mangrove Ave., Suite 212, Chico, CA 95926 [T] 530-566-1400 • [C] 530-592-6822 • [F] 530-566-1401 iduda @ broadbentinc.com



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# THE LEADER IN ENVIRONMENTAL TESTING

# **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc. TestAmerica Irvine 17461 Derian Ave Suite 100 Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-22155-1

Client Project/Site: ARCO 0771, Livermore

For:

Broadbent & Associates, Inc. 1324 Mangrove Ave Suite 212 Chico, California 95926

Attn: Mr. Jason Duda

Authorized for release by: 9/5/2012 2:48:30 PM

Pat Abe Project Manager I pat.abe@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.

Client: Broadbent & Associates, Inc. Project/Site: ARCO 0771, Livermore

TestAmerica Job ID: 440-22155-1

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# **Sample Summary**

Client: Broadbent & Associates, Inc. Project/Site: ARCO 0771, Livermore

TestAmerica Job ID: 440-22155-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-22155-1	MW-7	Water	08/31/12 12:50	09/01/12 10:00

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### **Case Narrative**

Client: Broadbent & Associates, Inc. Project/Site: ARCO 0771, Livermore

TestAmerica Job ID: 440-22155-1

Job ID: 440-22155-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-22155-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/1/2012 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8° C.

#### GC/MS VOA

Method(s) 8260B: Calibration verification for Ethanol is outside of limits as stated in BP-GCLN technical requirements however the calibration verification meets the requirements as stated in the analytical method.

No other analytical or quality issues were noted.

### GC VOA

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: (440-21760-4 MS). Evidence of matrix interference is present; therefore, re-analysis was not performed.

No other analytical or quality issues were noted.

#### **VOA Prep**

No analytical or quality issues were noted.

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# **Client Sample Results**

Client: Broadbent & Associates, Inc. Project/Site: ARCO 0771, Livermore

TestAmerica Job ID: 440-22155-1

Lab Sample ID: 440-22155-1

Matrix: Water

Client Sample ID: MW-7

Date Collected: 08/31/12 12:50 Date Received: 09/01/12 10:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		10	ug/L			09/05/12 05:10	20
1,2-Dichloroethane	ND		10	ug/L			09/05/12 05:10	20
Benzene	650		10	ug/L			09/05/12 05:10	20
Ethanol	ND	RJ	3000	ug/L			09/05/12 05:10	20
Ethylbenzene	31		10	ug/L			09/05/12 05:10	20
Ethyl-t-butyl ether (ETBE)	ND		10	ug/L			09/05/12 05:10	20
Isopropyl Ether (DIPE)	ND		10	ug/L			09/05/12 05:10	20
m,p-Xylene	51		20	ug/L			09/05/12 05:10	20
Methyl-t-Butyl Ether (MTBE)	120		10	ug/L			09/05/12 05:10	20
o-Xylene	ND		10	ug/L			09/05/12 05:10	20
Tert-amyl-methyl ether (TAME)	ND		10	ug/L			09/05/12 05:10	20
tert-Butyl alcohol (TBA)	510		200	ug/L			09/05/12 05:10	20
Toluene	16		10	ug/L			09/05/12 05:10	20
Xylenes, Total	51		20	ug/L			09/05/12 05:10	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		-		09/05/12 05:10	20
Dibromofluoromethane (Surr)	100		80 - 120				09/05/12 05:10	20
Toluene-d8 (Surr)	103		80 - 120				09/05/12 05:10	20
- Method: 8015B/5030B - Gasoli	ne Range Organi	cs (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	15000		10000	ug/L			09/01/12 17:08	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			65 - 140		-		09/01/12 17:08	200

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### **Lab Chronicle**

Client: Broadbent & Associates, Inc. Project/Site: ARCO 0771, Livermore

TestAmerica Job ID: 440-22155-1

Lab Sample ID: 440-22155-1

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Matrix: Water

Date Collected: 08/31/12 12:50 Date Received: 09/01/12 10:00

Client Sample ID: MW-7

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		20	10 mL	10 mL	49675	09/05/12 05:10	RM	TAL IRV
Total/NA	Analysis	8015B/5030B		200	10 mL	10 mL	49415	09/01/12 17:08	KS	TAL IRV

#### Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

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Client: Broadbent & Associates, Inc. Project/Site: ARCO 0771, Livermore TestAmerica Job ID: 440-22155-1

# Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-49675/4 Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA

Analysis Batch: 49675

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			09/04/12 19:58	1
1,2-Dichloroethane	ND		0.50	ug/L			09/04/12 19:58	1
Benzene	ND		0.50	ug/L			09/04/12 19:58	1
Ethanol	ND		150	ug/L			09/04/12 19:58	1
Ethylbenzene	ND		0.50	ug/L			09/04/12 19:58	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	ug/L			09/04/12 19:58	1
Isopropyl Ether (DIPE)	ND		0.50	ug/L			09/04/12 19:58	1
m,p-Xylene	ND		1.0	ug/L			09/04/12 19:58	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	ug/L			09/04/12 19:58	1
o-Xylene	ND		0.50	ug/L			09/04/12 19:58	1
Tert-amyl-methyl ether (TAME)	ND		0.50	ug/L			09/04/12 19:58	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			09/04/12 19:58	1
Toluene	ND		0.50	ug/L			09/04/12 19:58	1
Xylenes, Total	ND		1.0	ug/L			09/04/12 19:58	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepai	red Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87	80 - 120		09/04/12 19:58	1
Dibromofluoromethane (Surr)	96	80 - 120		09/04/12 19:58	1
Toluene-d8 (Surr)	96	80 - 120		09/04/12 19:58	1

Lab Sample ID: LCS 440-49675/5

Matrix: Water

Analysis Batch: 49675

Client Sample ID: Lab Control Sample Prep Type: Total/NA

7 maryone Datom 10010	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,2-Dibromoethane (EDB)	25.0	26.2		ug/L		105	75 _ 125
1,2-Dichloroethane	25.0	22.3		ug/L		89	60 - 140
Benzene	25.0	20.5		ug/L		82	70 - 120
Ethanol	250	264		ug/L		106	40 - 155
Ethylbenzene	25.0	25.1		ug/L		100	75 <sub>-</sub> 125
Ethyl-t-butyl ether (ETBE)	25.0	19.1		ug/L		76	65 _ 135
Isopropyl Ether (DIPE)	25.0	21.5		ug/L		86	60 _ 135
m,p-Xylene	50.0	52.6		ug/L		105	75 <sub>-</sub> 125
Methyl-t-Butyl Ether (MTBE)	25.0	17.8		ug/L		71	60 _ 135
o-Xylene	25.0	25.6		ug/L		102	75 <sub>-</sub> 125
Tert-amyl-methyl ether (TAME)	25.0	17.2		ug/L		69	60 _ 135
tert-Butyl alcohol (TBA)	125	141		ug/L		113	70 - 135
Toluene	25.0	22.4		ug/L		90	70 _ 120

	LCS	LCS	
Surrogate	%Recovery	Qualifier	

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	80 - 120
Dibromofluoromethane (Surr)	99	80 - 120
Toluene-d8 (Surr)	96	80 120

TestAmerica Job ID: 440-22155-1

Client: Broadbent & Associates, Inc. Project/Site: ARCO 0771, Livermore

Lab Sample ID: 440-21316-B-7 MS

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Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Water

Analysis Batch: 49675

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,2-Dibromoethane (EDB)	ND		25.0	30.5		ug/L		122	70 - 130	
1,2-Dichloroethane	0.52		25.0	27.3		ug/L		107	60 - 140	
Benzene	ND		25.0	23.6		ug/L		94	65 <sub>-</sub> 125	
Ethanol	ND		250	293		ug/L		117	40 - 155	
Ethylbenzene	ND		25.0	28.2		ug/L		113	65 - 130	
Ethyl-t-butyl ether (ETBE)	ND		25.0	23.7		ug/L		95	60 - 135	
Isopropyl Ether (DIPE)	ND		25.0	26.5		ug/L		106	60 - 140	
m,p-Xylene	ND		50.0	58.6		ug/L		117	65 _ 130	
Methyl-t-Butyl Ether (MTBE)	0.54		25.0	22.7		ug/L		89	55 <sub>-</sub> 145	
o-Xylene	ND		25.0	28.5		ug/L		114	65 - 125	
Tert-amyl-methyl ether (TAME)	ND		25.0	21.6		ug/L		86	60 - 140	
tert-Butyl alcohol (TBA)	ND		125	160		ug/L		128	65 - 140	
Toluene	ND		25.0	25.8		ug/L		103	70 <sub>-</sub> 125	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: 440-21316-B-7 MSD

Matrix: Water

Analysis Batch: 49675

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,2-Dibromoethane (EDB)	ND		25.0	30.5		ug/L		122	70 - 130	0	25
1,2-Dichloroethane	0.52		25.0	27.6		ug/L		108	60 - 140	1	20
Benzene	ND		25.0	23.3		ug/L		93	65 - 125	1	20
Ethanol	ND		250	288		ug/L		115	40 - 155	2	30
Ethylbenzene	ND		25.0	27.4		ug/L		109	65 - 130	3	20
Ethyl-t-butyl ether (ETBE)	ND		25.0	24.4		ug/L		98	60 - 135	3	25
Isopropyl Ether (DIPE)	ND		25.0	26.5		ug/L		106	60 - 140	0	25
m,p-Xylene	ND		50.0	55.9		ug/L		112	65 _ 130	5	25
Methyl-t-Butyl Ether (MTBE)	0.54		25.0	23.6		ug/L		92	55 <sub>-</sub> 145	4	25
o-Xylene	ND		25.0	27.8		ug/L		111	65 - 125	2	20
Tert-amyl-methyl ether (TAME)	ND		25.0	22.1		ug/L		88	60 - 140	2	30
tert-Butyl alcohol (TBA)	ND		125	154		ug/L		123	65 - 140	4	25
Toluene	ND		25.0	25.4		ug/L		102	70 <sub>-</sub> 125	2	20

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	96		80 - 120

TestAmerica Irvine 9/5/2012

Client: Broadbent & Associates, Inc. Project/Site: ARCO 0771, Livermore

## Method: 8015B/5030B - Gasoline Range Organics (GC)

Lab Sample ID: MB 440-49415/3 Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA

Analysis Batch: 49415

мв мв Result Qualifier RL Prepared Unit D Analyzed Dil Fac Analyte 50 09/01/12 14:12 GRO (C6-C12) ND ug/L

MB MB

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 65 - 140 09/01/12 14:12 4-Bromofluorobenzene (Surr) 97

Lab Sample ID: LCS 440-49415/2 Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA

Analysis Batch: 49415

LCS LCS Spike %Rec. Added Qualifier Analyte Result Unit Limits %Rec GRO (C4-C12) 800 ug/L 87 80 - 120 699

LCS LCS Surrogate %Recovery Qualifier Limits 65 - 140 4-Bromofluorobenzene (Surr) 127

Lab Sample ID: 440-21760-B-4 MS Client Sample ID: Matrix Spike Matrix: Water Prep Type: Total/NA

Analysis Batch: 49415

MS MS %Rec. Sample Sample Spike Qualifier Added Qualifier Result Result Unit %Rec Limits GRO (C4-C12) ND 800 765 ug/L 65 - 140

MS MS %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 147 LH 65 - 140

Lab Sample ID: 440-21760-B-4 MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Analysis Batch: 49415

Sample Sample MSD MSD RPD Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit GRO (C4-C12) ND 800 740 ug/L 92 65 - 140

MSD MSD %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 139 65 - 140 Prep Type: Total/NA

# **QC Association Summary**

Client: Broadbent & Associates, Inc. Project/Site: ARCO 0771, Livermore TestAmerica Job ID: 440-22155-1

### **GC/MS VOA**

Analysis Batch: 49675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
440-21316-B-7 MS	Matrix Spike	Total/NA	Water	8260B/5030B
440-21316-B-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/5030B
440-22155-1	MW-7	Total/NA	Water	8260B/5030B
LCS 440-49675/5	Lab Control Sample	Total/NA	Water	8260B/5030B
MB 440-49675/4	Method Blank	Total/NA	Water	8260B/5030B

### **GC VOA**

Analysis Batch: 49415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21760-B-4 MS	Matrix Spike	Total/NA	Water	8015B/5030B	
440-21760-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B/5030B	
440-22155-1	MW-7	Total/NA	Water	8015B/5030B	
LCS 440-49415/2	Lab Control Sample	Total/NA	Water	8015B/5030B	
MB 440-49415/3	Method Blank	Total/NA	Water	8015B/5030B	

# **Definitions/Glossary**

Client: Broadbent & Associates, Inc. Project/Site: ARCO 0771, Livermore

Surrogate Recoveries were higher than QC limits

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 440-22155-1

Qualifiers	
GC/MS VOA	
Qualifier	Qualifier Description
RJ	Contract limits originate from BP LaMP Technical Requirements
GC VOA	
Qualifier	Qualifier Description

Glossary	,
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TEF TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
<b></b>	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

# **Certification Summary**

Client: Broadbent & Associates, Inc. Project/Site: ARCO 0771, Livermore TestAmerica Job ID: 440-22155-1

### **Laboratory: TestAmerica Irvine**

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

Authority	Program	EPA Region	Certification ID	<b>Expiration Date</b>
Arizona	State Program	9	AZ0671	10-13-12
California	LA Cty Sanitation Districts	9	10256	01-31-13
California	NELAC	9	1108CA	01-31-13
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-23-13
Hawaii	State Program	9	N/A	01-31-13
Nevada	State Program	9	CA015312007A	07-31-12
New Mexico	State Program	6	N/A	01-31-12
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAC	10	4005	09-12-12
USDA	Federal		P330-09-00080	06-06-14

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BP LaMP COC Rev. 7, Aug 23, 2011

10,0

Time

Date

BP Remediation Management COC - Effective Dates: August 23, 2011 - June 30, 2012

and to lab.enfosdoc@bp.com Sampling Report Type & QC Level Note: if sample not collected, indicate "No Sample" in comments and single-strike out and inital any preprinted sample description MS/MSD Sample Submitted: Yes / 10 space sheen Rush TAT: Yes Full Data Package Comments Page Email: 530-566-1401 On Hold Contractor Address: 1324 Mangrove Ave., Ste. 212, Chico, CA 95926 Broadbent and Associates Christon 06-82-608 Sarpe iduda@broadbentinc.com Accepted By / Affiliation Jason Duda Consultant/Contractor Project No: ఠ Trip Blank; Yes / No Consultant/Contractor PM: 2002113002 00 527 - 0 002/WE 245 Prone: 530-566-1400 Consultant/Contractor: Requested Analyses Email EDD To: nvoice To: Req Due Date (mm/dd/yy): Lab Work Order Number: Laboratory Management Program LaMP Chain of Custody Record Cooler Temp on Receipt: 24' C.F/C J200 Ethanol by 8260 Time 'S-DCV py 8260 00C-RM 31EX/2 FO + EDB by 8260 57-15 Date M2108 vd OFF No. Containers / Preservative Provision x 00C-BU Methanol Activity: GWM (616) HÇI Relinquished By / Affiliation Livermore, CA T0600100113 80NH ACEH **≯OSZH** Facility Address: 899 Rincon Ave 06-82-608 Temp Blank: Yes / Unpreserved 7 Enfos Proposal Nosんいのとは ead Regulatory Agency: Total Number of Container California Global ID No.: City, State, ZIP Code: Stage: Execute (4) ls this location a well? Accounting Mode: Matrix Air / Vapor Water / Liquid × bilos / lios THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / NO BP Site Node Path: 8/31/2012 BP Facility No: 252 Time 4101 8850 8/31/2012 8/31/2012 対発形 Lab Address: 17461 Derian Suite #100, Irvine, CA 92641 Date Ship Date: **Broadbent and Associates** shannon.couch@bp.com BP Project Manager (PM): Shannon Couch Alex Martinez 1103-6633-7 5007 Sample Description FedEx Test America 949-261-1022 BP PM Phone; 925-275-3804 Special Instructions: TB-771-08312012 Pat Abe Shipment Tracking No: Sampler's Company: Lab Bottle Order No: ab Shipping Accnt: Shipment Method: Sampler's Name: BP PM Email: WW-7 Lab Phone: Lab Name: Other Info: Lab PM: Lab No.

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Client: Broadbent & Associates, Inc.

Job Number: 440-22155-1

Login Number: 22155 List Source: TestAmerica Irvine

List Number: 1 Creator: Perez, Angel

Cleator. Perez, Anger		
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	
Sample custody seals, if present, are 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	Alex Martinez
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.	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.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica Irvine