

## **APPENDIX E**

### **Disposal Documentation**



1076 OLD MANHEIM PIKE  
LANCASTER, PA 17601  
PHONE: (717) 393-2627  
FAX: (717) 393-0432

Manifest No. **76866**  
**RAG 295R1**

# NON-HAZARDOUS WASTE MANIFEST

Date: March 4, 2009  
Phone No.: \_\_\_\_\_  
EPA ID No.: \_\_\_\_\_  
Contact: \_\_\_\_\_

Generator: Liberty 38  
700 N Railroad St ( Rt 309 )  
Tamaqua, PA

Describe the process of generating waste material: \_\_\_\_\_  
\_\_\_\_\_

The Generator hereby requests and warrants that the material as listed does not contain substances at any level or combined levels that would require its listing as a hazardous waste.

Date: 3/4/09 Signature: \_\_\_\_\_  
Generator's Authorized Representative

Description of Waste	Form	Quantity	Circle Units	No.	Container
<b>Waste Oil</b>	Liquid	7	Pounds		Tanker Drum Roll Off Sludge Box
<b>Water</b>	Sludge		Gallons		
<b>Coolant</b>	Solid		Tons		

Transporter: Environmental Recovery Corp. Phone No.: (717)393-2627  
1076 Old Manheim Pike Phone No.: PAD987266749  
Lancaster, PA 17601 EPA ID No.: Mike Mulrine  
Tractor No.: 26 Trailer No.: V-1101

I certify that the above specified waste is being transported in the above vehicle to the Recycling facility named below.  
Date: 3/4/09 Signature: \_\_\_\_\_  
Transporter Signature

Facility: Environmental Recovery Corp. of PA Phone No.: (717) 393-2627  
1076 Old Manheim Pike EPA ID No.: PAD 987266749  
Lancaster, PA 17601 Contact: Richard Middleton

The load described above is accepted at this facility.  
Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Environmental Recovery Corp. of PA - Authorized Representative



Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: (301) 791-6220 Fax: (301) 791-6044

Ticket: 312000034528

Date Time Scale  
In: 6/16/2011 10:54:05 Scale 1  
Out: 6/16/2011 10:54:15 P.T.

Manifest: 444273  
Vehicle ID: HOBBS-266  
Vehicle Permit:  
Customer: CENTER POINT TANK  
Generator EPA#:   
Generators: Norwood Klotz  
Gen Address: 600 East Main Street  
Schuylkill Haven, PA 17972

Lbs Tns  
Gross: 71260 35.63  
Tare: 26020 13.01  
Net: 45240 22.62

Facility Approval#: 113120230  
Job Name: Norwood Klotz/Liberty Oil #30  
Job Address: 700 North Railroad Street  
Tamaqua, PA 18252

Origin Materials & Services Quantity Unit

Schuylkill Soil Treatment Type III 22.62 Tns

Contaminate Type: Petroleum  
Treatment Type: Fixation  
Fac Waste Code: Soils

Storage Area: Area B  
Sample ID: 88385  
Comment:

Driver:   
DOUG TRIMMER

Facility:   
Cowdrick, Christine

Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: (301) 791-6220 Fax: (301) 791-6044

Ticket: 312000034531

Date Time Scale  
In: 6/16/2011 11:00:22 Scale 1  
Out: 6/16/2011 11:00:43 P.T.

Manifest: 445727  
Vehicle ID: HOBBS-240  
Vehicle Permit:  
Customer: CENTER POINT TANK  
Generator EPA#:   
Generator: Norwood Klotz  
Gen Address: 600 East Main Street  
Schuylkill Haven, PA 17972

Lbs Tns  
Gross: 70600 35.30  
Tare: 24400 12.20  
Net: 46200 23.10

Facility Approval#: 113120230  
Job Name: Norwood Klotz/Liberty Oil #30  
Job Address: 700 North Railroad Street  
Tamaqua, PA 18252

Origin Materials & Services Quantity Unit

Schuylkill Soil Treatment Type III 23.10 Tns

Contaminate Type: Petroleum  
Treatment Type: Fixation  
Fac Waste Code: Soils

Storage Area: Area B  
Sample ID: 88386  
Comment:

Driver:   
NICK BUCKINGHAM

Facility:   
Cowdrick, Christine

Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: (301) 791-6220 Fax: (301) 791-6044

Ticket#: 312000034534

	Date	Time	Scale
In:	6/16/2011	11:27:37	Scale 1
Out:	6/16/2011	11:27:55	P.T.

Manifest: 445730  
Vehicle ID: J&J-897  
Vehicle Permits:  
Customer: CENTER POINT TANK  
Generator EPA#:   
Generator: Norwood Klotz  
Gen Address: 600 East Main Street  
Schuylkill Haven, PA 17972

	Lbs	Tns
Gross:	72600	36.30
Tare:	32740	16.37
Net:	39860	19.93

Facility Approval#: 113120238  
Job Name: Norwood Klotz/Liberty Oil #38  
Job Address: 700 North Railroad Street  
Tamaqua, PA 18252

Origin	Materials & Services	Quantity	Unit
Schuylkill	Soil Treatment Type III	19.93	Tns
Contaminate Type: Petroleum			
Treatment Type: Fixation			
Fac Waste Code: Soils			

Storage Area: Area B  
Sample ID: 88390  
Comments:

Driver:   
VANCE CLICK

Facility:   
Cowdrick, Christine

Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: (301) 791-6220 Fax: (301) 791-6044

Ticket: 312000034537

	Date	Time	Scale
In:	6/16/2011	11:35:44	Scale 1
Out:	6/16/2011	11:36:01	P.T.

Manifest: 445731  
Vehicle ID: HOBBS-1580  
Vehicle Permit:  
Customer: CENTER POINT TANK  
Generator EPA#:   
Generator: Norwood Klotz  
Gen Address: 600 East Main Street  
Schuylkill Haven, PA 17972

	Lbs	Tns
Gross:	81800	40.94
Tare:	32660	16.33
Net:	49220	24.61

Facility Approval#: 113120238  
Job Name: Norwood Klotz/Liberty Oil #38  
Job Address: 700 North Railroad Street  
Tamaqua, PA 18252

Origin	Materials & Services	Quantity	Unit
Schuylkill	Soil Treatment Type III	24.61	Tns
Contaminate Type: Petroleum			
Treatment Type: Fixation			
Fac Waste Code: Soils			

Storage Area: Area B  
Sample ID: 88391  
Comments:

Driver:   
MIKE BOONE

Facility:   
Cowdrick, Christine

Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: (301) 791-6220 Fax: (301) 791-6044

Ticket#: 312000034553  
Date Time Scale  
In: 6/16/2011 15:57:00 Scale 1  
Out: 6/16/2011 15:57:22 P.T.

Manifest: 376524  
Vehicle ID: HOBBS-2510  
Vehicle Permit:  
Customer: CENTER POINT TANK  
Generator EPA#: \_\_\_\_\_

Lbs Tns  
Gross: 75680 37.84  
Tare: 29100 14.55  
Net: 46580 23.29

Facility Approval#: 113120238  
Job Name: Norwood Klotz/Liberty Oil #38  
Job Address: 700 North Railroad Street  
Tamaqua, PA 18252

Generator: Norwood Klotz  
Gen Address: 600 East Main Street  
Schuylkill Haven, PA 17972

Origin Materials & Services Quantity Unit

Schuylkill Soil Treatment Type III 23.29 Tns

Contaminate Type: Petroleum  
Treatment Type: Fixation  
Fac Waste Code: Soils

Storage Area: Area B  
Sample ID: 00401  
Comment:

Driver: Don Purkey  
DON PURKEY

Facility: Chandra  
Morgan, Chandra

Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: (301) 791-6220 Fax: (301) 791-6044

Ticket: 312000034555  
Date Time Scale  
In: 6/16/2011 16:13:34 Scale 1  
Out: 6/16/2011 16:14:09 P.T.

Manifest: 447773  
Vehicle ID: HOBBS-266  
Vehicle Permit:  
Customer: CENTER POINT TANK  
Generator EPA#: \_\_\_\_\_

Lbs Tns  
Gross: 76120 38.06  
Tare: 26020 13.01  
Net: 50100 25.05

Facility Approval#: 113120238  
Job Name: Norwood Klotz/Liberty Oil #38  
Job Address: 700 North Railroad Street  
Tamaqua, PA 18252

Generator: Norwood Klotz  
Gen Address: 600 East Main Street  
Schuylkill Haven, PA 17972

Origin Materials & Services Quantity Unit

Schuylkill Soil Treatment Type III 25.05 Tns

Contaminate Type: Petroleum  
Treatment Type: Fixation  
Fac Waste Code: Soils

Storage Area: Area B  
Sample ID: 00402  
Comment:

Driver: Doug Trimmer  
DOUG TRIMMER

Facility: Chandra  
Morgan, Chandra

Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: (301) 791-6229 Fax: (301) 791-6044

Ticket: 312000034557  
Date Time Scale  
In: 6/16/2011 16:28:27 Scale 1  
Out: 6/16/2011 16:29:01 P.T.

Lbs Tns  
Gross: 71060 35.53  
Tare: 24400 12.20  
Net: 46660 23.33

Manifest: 447774  
Vehicle ID: HOBBS-240  
Vehicle Permit:  
Customer: CENTER POINT TANK  
Generator EPA#:   
Generator: Norwood Klotz  
Gen Address: 600 East Main Street  
Schuylkill Haven, PA 17972

Facility Approval#: 113120230  
Job Name: Norwood Klotz/Liberty Oil #30  
Job Address: 700 North Railroad Street  
Tamaqua, PA 18252

Origin	Materials & Services	Quantity	Unit
Schuylkill	Soil Treatment Type III	23.33	Tns
	Contaminate Type: Petroleum		
	Treatment Type: Fixation		
	Fac Waste Code: Soils		

Storage Area: Area B  
Sample ID: 08403  
Comments:

Driver:   
NICK BUCKINGHAM

Facility:   
Morgan, Chandra

Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: (301) 791-6229 Fax: (301) 791-6044

Ticket: 312000034560  
Date Time Scale  
In: 6/16/2011 15:52:27 Scale 1  
Out: 6/16/2011 17:11:13 P.T.

Lbs Tns  
Gross: 73740 36.87  
Tare: 32740 16.37  
Net: 41000 20.50

Manifest: 447775  
Vehicle ID: J&J-097  
Vehicle Permit:  
Customer: CENTER POINT TANK  
Generator EPA#:   
Generator: Norwood Klotz  
Gen Address: 600 East Main Street  
Schuylkill Haven, PA 17972

Facility Approval#: 113120230  
Job Name: Norwood Klotz/Liberty Oil #30  
Job Address: 700 North Railroad Street  
Tamaqua, PA 18252

Origin	Materials & Services	Quantity	Unit
Schuylkill	Soil Treatment Type III	20.50	Tns
	Contaminate Type: Petroleum		
	Treatment Type: Fixation		
	Fac Waste Code: Soils		

Storage Area: Area B  
Sample ID: 08406  
Comments:

Driver:   
VANCE CLICK

Facility:   
Morgan, Chandra

Union Birth of Maryians  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
PH: (301) 791-6220 Fax: (301) 791-6004

Date Time Scale  
In: 6/15/2011 17:13:02 Scale 1  
Out: 6/15/2011 17:44:52 P.L.

Manifest: 447774  
Vehicle ID: H0983-1568  
Vehicle Permit:  
Customer: CENTER POINT TANK  
Generator EPA#: 113120238

Lbs Tns  
Gross: 79500 39.75  
Tare: 32860 15.33  
Net: 46640 23.42

Generator: Norwood Klotz  
Gen Address: 600 East Main Street  
Schuylkill Haven, PA 17972

Facility Approval#: 113120238  
Job Name: Norwood Klotz/Liberty Oil #34  
Job Address: 700 North Railroad Street  
Tamaqua, PA 18252

Origin	Materials & Services	Quantity	Unit
Schuylkill	Soil Treatment Type III Contaminate Type: Petroleum Treatment Type: Fixation Fac Waste Code: Soils	23.42	Tns

Storage Area: Area B  
Sample ID: 88407  
Comments:

Driver: Mike Boone  
MIKE BOONE

Facility: By: Nelson W. Peedy  
Morgan, Chandra

# ENVIRONMENTAL RECOVERY CORPORATION NON-HAZARDOUS WASTE MANIFEST

Generators Name and Site Address <b>Liberty Oil Co.</b> <b>700 N. Railroad St.</b> <b>Tamaqua, PA 18252</b>		Manifest No. <b>97769</b>			
		Generator Contact <b>Norwood Klotz</b>			
		Generator Phone <b>(800) 861-6445</b>			
Transporter Company Name <b>Environmental Recovery Corp.</b>	US EPA ID Number <b>PAD987266749</b>	Transporter Contact <b>Scott Reisinger</b>			
Transporter Company Address <b>1076 Old Manheim Pike, Lancaster, PA 17601</b>		Transporter Phone <b>(717) 393-2627</b>			
Designated Facility Name and Site Address <b>Environmental Recovery Corporation.</b> <b>1076 Old Manheim Pike</b> <b>Lancaster, PA 17601</b>	US EPA ID Number <b>PAD987266749</b>	State Facility's ID Number <b>301344</b>			
		Facility's Phone <b>(717) 393-2627</b>			
WASTE DESCRIPTION		Containers			
		No.	Type	Total Quantity	UOM
a. <b>Waste Description- Soil Cuttings (SPT)</b>		<b>6</b>	<b>DM</b>	<b>2,400<sup>EST.</sup></b>	<b>P.</b>
b. <b>Waste Description</b>					
c. <b>Waste Description</b>					
d. <b>Waste Description</b>					
Other Comments <b>Work Order # MWW-033</b>					
TYPES OF CONTAINERS BA = Burlap, cloth, paper or plastic bags, super sac CF = Fiber or plastic boxes, cartons, cases, cubic yd. box CM = Metal boxes, cartons, cases (including roll-offs) CW = Wooden boxes, cartons, cases, pallet DF = Fiberboard or plastic drums, barrels, kegs		UNITS OF MEASURE (UOM) G = Gallons (liquids only) P = Pounds T = Tons (2000 pounds) Y = Cubic Yards			
I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR 261 or any applicable state law. Further, that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.					
Printed / Typed Name		Signature	Date		
<b>Rachel Burkert (SPTS) (Agent for generator)</b>		<b>Rachel Burkert</b>	<b>09 05 10</b>		
Transporter Acknowledgement of Receipt of Materials					
Printed / Typed Name		Signature	Date		
<b>J. Wiggins</b>		<b>J. Wiggins</b>	<b>09 05 10</b>		
Discrepancy Indication Space					
Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted above					
Printed / Typed Name		Signature	Date		
<b>Brenda Weaver</b>		<b>Brenda Weaver</b>	<b>9 15 10</b>		

GENERATOR

TRANSPORTER

FACILITY

CUSTOMER CONTACT: **Rachele Burkhardt**  
 PHONE NUMBER: **410-451-2227**  
 SITE NUMBER NAME AND ADDRESS: **Center Point Tank Services**  
 CALL WAS TAKEN ON: **AT BY**  
 ROUTE: **ASSIGNED TECH**  
 P.O. NUMBER: **19801**  
 CALL TYPE: **ENVIRONMENTAL**  
 PROBLEM CODE: **FOR MARKET ST.**  
 ORDER ORIGIN: **Wilmington, DE 19801**

Bohn Auto motive  
 750 Lancaster Ave Reading Pa. 19607  
 Liberty oil #38  
 700 N Railroad TAWANQUA PA. 18262  
 PROBLEM SYNOPSIS, AS REPORTED: **MIA NUMBER**  
 ASSIGNED TECH: **Shafiq**  
 PROMISE DATE, TIME

VEHICLE NO.	TRAVEL TIME	TRAVEL MILES	TIME ON SITE	ARRIVE DATE	ARRIVE TIME	CLOSE DATE	CLOSE TIME	JOB COMPLETE	COMMENT/S/NOTES:
961422				5/25/12	9:00A	5/25/12		YES	

PART / DESCRIPTION	UM	QUANTITY	HM	SHIPPING DESCRIPTION	SERIAL #	# CONT	TYPE
oily water	G	77		now has now DOT			
oily water	G	1126		now RRR			

**Reuse Qualification Statement**

By signing this document, I hereby certify that I understand the used FCC Environmental, LLC degreasing fluid (i.e. Mineral spirits, petroleum naphtha), returned to FCC Environmental, LLC for inclusion in the FCC Environmental, LLC Reuse Program will be utilized as an effective substitute for chemical product. For the purpose of qualifying to participate in the Program, I further certify that any used degreasing fluid so returned to FCC Environmental, LLC has not been mixed with hazardous waste or other objectionable substances. All constituents that may be present in the degreasing fluid are contaminants resulting from, and incidental to, normal use of the solvent as a degreaser or cleaner. I have reviewed our physical facilities, administrative practices, and operational procedures and based on this review do willing make this true, accurate and complete certification.

**Reuse Solvent QA & QC**

Yes  No  Used solvent passed visual inspection  
 Yes  No  Used solvent has no unusual odor  
 Yes  No  Parts Cleaner is clean (front/back)  
 Yes  No  Fusible link operational  
 Yes  No  Light assembly is in good working order  
 Yes  No  Lid is unobstructed  
 Yes  No  Parts Cleaner is properly grounded

**Authorization Signature**  
 I agree to pay for the above services and/or products and to bound by the terms and conditions set forth above and on the reverse side of this document.

PRINT CUSTOMER NAME: **Rachel Burkhardt**  
 CUSTOMER SIGNATURE: **Rachel Burkhardt**  
 DATE: **5/25/12**

PRINT CUSTOMER NAME: **2406100**  
 CUSTOMER SIGNATURE: **CUSTOMER**  
 DATE: **5/25/12**

Initial if Conditionally Exempt Small Quantity Generator as defined in 40 CFR 261.5  
 Initial if Do-it-yourself collection center  
 The GENERATOR hereby certifies that the material collected from the GENERATOR'S facility by FCC Environmental, LLC does not contain a PCB as defined in 40 CFR 761 and is not hazardous waste or been mixed with a listed or characteristic hazardous waste as defined in 40 CFR 261, if the material collected is a used oil as defined in 40 CFR part 279, the GENERATOR certifies that the total halogen content is less than 1,000 ppm, or the GENERATOR hereby certifies that the reusable waste presumption under 40 CFR Part 279 has been rebutted. If contains PCB's or is determined to be a hazardous waste, I certify that to the best of my knowledge, the information presented herein is correct and accurate, and I am authorized to sign on behalf of the GENERATOR.

**Shipping Declaration:**  
 This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the department of Transportation.

**Transporter Information:**  
 International Petroleum Corporation of Delaware  
 505 S. Market Street  
 Wilmington, DE 19801

**Designated Facility:**  
 505 S. Market Street  
 Wilmington, DE 19801  
 (800) 222-2511  
 EPA ID # DED984073692

Emergency Contact Chemtrec: (800) 424-9300  
 US DOT 495173  
 EPA ID # DED984073692

DRIVER SIGNATURE: **5/25/12**  
 DATE: **5/25/12**

RECEIVED AT PLANT / DATE  
 LF 071 REV. B





**Monarch Environmental, Inc.**

**Invoice**

**P.O. Box 330  
Woodstown, NJ 08098**

**DATE INVOICE #**

Phone # (856) 769-9022 Fax # (856) 769-8740

2/26/2018 104810

E-mail peg@monarchenv.net Web Site www.monarchenv.net

**BILL TO**

**Center Point Tank Service, Inc.  
536 E. Benjamin Franklin Hwy  
Douglassville, PA 19518**

REP		P.O. NO.		TERMS	Location	PA
		08-12-4292		Net 30		
QTY	DESCRIPTION	RATE	AMOUNT			
	309 Auto Sales 700 N. Railroad St Tamaqua, Pa 02/23/18					
1	Service Charge-Drum Pick Up	305.00	305.00			
3	Drum Disposal-Soil	65.00	195.00			
1	Drum Disposal-Water	50.00	50.00			
1	Load Verification	25.00	25.00			
	BOL # 427266 Angel R. Sales Tax	6.625%	0.00			
Please remit to P.O. Box 330 Woodstown, NJ 08098					<b>Total</b>	\$575.00

ATA

108 East Lake Rd,  
PO BOX 330  
Woodstown, NJ 08098

Site Job Site - 309 Auto Sales  
700 N. Railroad Street

BOL: 427266

Tamaqua Pa

Transporter 1 Company Name  
Monarch Environmental, Inc.

US EPA ID Number  
NJR000040667

Transporter's Phone  
856-769-9022

Designated Facility name and Site Address

US EPA ID Number  
NJ0011881174

Facility's Phone  
856-769-9022

Monarch Environmental Recycling  
108 East Lake Rd  
Woodstown, NJ 08098

US DOT Description (including Proper Shipping Name, Hazard Class or Division,  
ID Number and Packing Group)

*Polystyrene Microbeads / Styrene Monomer 1.2B2  
non PCBs/PCP Regulated*

Containers No.	Type	Total Quantity	Unit Wt/Vol	P / Y

Additional Descriptions for Materials Listed Above

ERG#  
24-Hr Emergency Phone: (856) 769-9022

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and are non-hazardous by US EPA and applicable state regulations.

Printed/Typed Name

*Tom Mace*

*Tom Mace*

Month / Day / Year

*8/22/18*

Transporter 1 or knowledge the name of the shipper or origin state

Name

*Angel P. ...*

Signature

*Angel P. ...*

Month / Day / Year

*8/22/18*

Receiver/Owner or Operator: Certification of Receipt of Above Listed Materials

Name

*...*

Signature

*...*

Month / Day / Year

LOADING INFORMATION

Start Time:  
Arrival Time:  
Depart Time:  
Finish Time:

Bill To Center Point Tank Service

536 Benjamin Franklin Hwy.

Douglasville Pa 19518

PQ #

Special Instructions

ms  
Bill by Roger 610-888-3338

Mon. Env /// Mon. Recy

BOL#

427266

Customer	
Ord By	
Phone#	

Job Location


Hourly Rate	
Service Charge	\$ 305. -
Trip Charge	
Fuel Surcharge	
Toll Surcharge	
Disp./Gal	
Disp./Drum	\$ 65/DM x 3
Disp./Drum	\$ 50/DM x 1
L. Verification	\$ 20 -
Site Tax	

Water	Oil / Water	Gas
-------	-------------	-----

Soil	Water	Gas	Debris	Tank Btms
Soil	Water	Gas	Debris	Tank Btms

Misc.	
Misc.	
Misc.	
Misc.	
Notes	

**APPENDIX F**

**Groundwater and Surface Water  
Analytical Data**

26 February 2009

**CENTERPOINT TANK SERVICES, INC**

Danielle Varnes  
536 Benjamin Franklin Highway  
Douglassville, PA 19518

RE: Liberty Oil #38 - Tamaqua

**Laboratory ID #: KSB0341**

Enclosed are the results of analyses for samples received by the laboratory on 02/17/09 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read "O. Burgos", is written over a light gray rectangular background.

Oswaldo Burgos  
Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua  
Project Number: NA  
Project Manager: Danielle Varnes

**Reported:**  
02/26/09 13:01

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	KSB0341-01	Water	02/16/09 13:30	02/17/09 15:00
MW-2	KSB0341-02	Water	02/16/09 14:30	02/17/09 15:00
MW-3	KSB0341-03	Water	02/16/09 15:30	02/17/09 15:00



CENTERPOINT TANK SERVICES, INC  
 536 Benjamin Franklin Highway  
 Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua  
 Project Number: NA  
 Project Manager: Danielle Varnes

**Reported:**  
 02/26/09 13:01

## Dissolved Metals by EPA 200 Series Methods

### TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (KSB0341-01) Water Sampled: 02/16/09 13:30 Received: 02/17/09 15:00</b>									
Lead	ND	0.36	ug/l	1	9022407	02/24/09	02/24/09	EPA 200.8	P7
<b>MW-2 (KSB0341-02) Water Sampled: 02/16/09 14:30 Received: 02/17/09 15:00</b>									
Lead	ND	0.36	ug/l	1	9022407	02/24/09	02/24/09	EPA 200.8	P7
<b>MW-3 (KSB0341-03) Water Sampled: 02/16/09 15:30 Received: 02/17/09 15:00</b>									
Lead	ND	0.36	ug/l	1	9022407	02/24/09	02/24/09	EPA 200.8	P7

TestAmerica King Of Prussia

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua  
Project Number: NA  
Project Manager: Danielle Varnes

**Reported:**  
02/26/09 13:01

## Volatile Organic Compounds by EPA Method 8260B

### TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

MW-1 (KSB0341-01) Water Sampled: 02/16/09 13:30 Received: 02/17/09 15:00

<b>Benzene</b>	<b>1.3</b>	1.0	ug/l	1	9022328	02/23/09	02/24/09	EPA 8260B	
Toluene	ND	2.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>2.4</b>	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Xylenes (total)	ND	6.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		101 %	89.1-111		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.5 %	70.8-124		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		93.1 %	83.5-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	77.7-126		"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	

MW-2 (KSB0341-02) Water Sampled: 02/16/09 14:30 Received: 02/17/09 15:00

<b>Benzene</b>	<b>1.4</b>	1.0	ug/l	1	9022328	02/23/09	02/24/09	EPA 8260B	
Toluene	ND	2.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>2.0</b>	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>11</b>	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Xylenes (total)	ND	6.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		99.7 %	89.1-111		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70.8-124		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		93.7 %	83.5-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.0 %	77.7-126		"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	

TestAmerica King Of Prussia

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC  
 536 Benjamin Franklin Highway  
 Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua  
 Project Number: NA  
 Project Manager: Danielle Varnes

**Reported:**  
 02/26/09 13:01

## Volatile Organic Compounds by EPA Method 8260B

### TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (KSB0341-03) Water Sampled: 02/16/09 15:30 Received: 02/17/09 15:00									
<b>Benzene</b>	<b>240</b>	1.0	ug/l	1	9022328	02/23/09	02/24/09	EPA 8260B	
<b>Toluene</b>	<b>97</b>	2.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>54</b>	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>5.6</b>	2.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>7.5</b>	5.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>40</b>	2.0	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>14</b>	2.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>170</b>	6.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		98.5 %	89.1-111	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70.8-124	"	"	"	"	"	
Surrogate: Toluene-d8		97.9 %	83.5-115	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.4 %	77.7-126	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>330</b>	2.0	"	"	"	"	"	"	

TestAmerica King Of Prussia

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua  
Project Number: NA  
Project Manager: Danielle Varnes

**Reported:**  
02/26/09 13:01

## EDB by EPA 8011

### TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (KSB0341-01) Water Sampled: 02/16/09 13:30 Received: 02/17/09 15:00</b>									
1,2-Dibromoethane	ND	0.050	ug/l	1	9022308	02/23/09	02/23/09	EPA 8011	
<b>MW-2 (KSB0341-02) Water Sampled: 02/16/09 14:30 Received: 02/17/09 15:00</b>									
1,2-Dibromoethane	ND	0.050	ug/l	1	9022308	02/23/09	02/23/09	EPA 8011	
<b>MW-3 (KSB0341-03) Water Sampled: 02/16/09 15:30 Received: 02/17/09 15:00</b>									
1,2-Dibromoethane	ND	0.050	ug/l	1	9022308	02/23/09	02/23/09	EPA 8011	

TestAmerica King Of Prussia

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua  
Project Number: NA  
Project Manager: Danielle Varnes

**Reported:**  
02/26/09 13:01

### Notes and Definitions

P7 Sample filtered in lab.  
DET Analyte DETECTED  
ND Analyte NOT DETECTED above reporting limit. If MDL is provided, analyte is NOT DETECTED above the MDL  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference



## CHAIN OF CUSTODY REPORT

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: GENERAL POINT TANK SERVICES Bill To: GENERAL SERVICE TAT:  STD 5 DAY 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.

Address: 530 E. BEN FRANKLIN HWY Address: SAME Received:  ice  ambient DATE RESULTS NEEDED:

Report to: DOUGLASSVILLE PA 19518 Phone #: (610) 337-9992 State: PA Terms: Net 30 days Deliverable Package:  NO  YES Temp. Upon Receipt: 0

E-mail: GENERAL@TESTAMERICA.COM Fax #: (610) 337-9998 Program: RADEP UST Phone #: ( ) Fax #: ( ) SAME

Project Name: UBERTY #38 - TAMMORA Project #/PO#:          # of Bottles Preservative Used: MeOH, NaHSO4, HCl, HNO3, H2SO4, NaOH, NONE

Sampler: DUK FIELD ID, LOCATION:          TOTAL # OF BOTTLES:          SAMPLES FIELD FILTERED:  YES  NO

1 MWD 1 PID:          DATE COLLECTED: 2/16/09 TIME COLLECTED: 1330 SAMPLE MATRIX:          LEADED GASOLINE  UNLEADED GASOLINE

2 MWD 2 PID:          DATE COLLECTED: 2/16 TIME COLLECTED: 1430 SAMPLE MATRIX:          ANALYSIS TYPE:          CRACKED/BROKEN  IMPROPERLY SEALED

3 MWD 3 PID:          DATE COLLECTED: 2/16 TIME COLLECTED: 1530 SAMPLE MATRIX:          LABORATORY ID NUMBER: KSRO341-01

4 PID:          DATE COLLECTED:          TIME COLLECTED:          SAMPLE MATRIX:          ANALYSIS TYPE:          CRACKED/BROKEN  IMPROPERLY SEALED

5 PID:          DATE COLLECTED:          TIME COLLECTED:          SAMPLE MATRIX:          ANALYSIS TYPE:          CRACKED/BROKEN  IMPROPERLY SEALED

6 PID:          DATE COLLECTED:          TIME COLLECTED:          SAMPLE MATRIX:          ANALYSIS TYPE:          CRACKED/BROKEN  IMPROPERLY SEALED

7 PID:          DATE COLLECTED:          TIME COLLECTED:          SAMPLE MATRIX:          ANALYSIS TYPE:          CRACKED/BROKEN  IMPROPERLY SEALED

8 PID:          DATE COLLECTED:          TIME COLLECTED:          SAMPLE MATRIX:          ANALYSIS TYPE:          CRACKED/BROKEN  IMPROPERLY SEALED

9 PID:          DATE COLLECTED:          TIME COLLECTED:          SAMPLE MATRIX:          ANALYSIS TYPE:          CRACKED/BROKEN  IMPROPERLY SEALED

10 PID:          DATE COLLECTED:          TIME COLLECTED:          SAMPLE MATRIX:          ANALYSIS TYPE:          CRACKED/BROKEN  IMPROPERLY SEALED

RELINQUISHED DATE: 2/16/09 TIME:          RECEIVED DATE: 2/17/09 TIME:         

RELINQUISHED DATE:          TIME:          RECEIVED DATE:          TIME:         

RELINQUISHED DATE:          TIME:          RECEIVED DATE:          TIME:         

RELINQUISHED DATE:          TIME:          RECEIVED DATE:          TIME:         

RELINQUISHED DATE:          TIME:          RECEIVED DATE:          TIME:         

RELINQUISHED DATE:          TIME:          RECEIVED DATE:          TIME:         

COMMENTS: PLEASE LAB FILTER

06 April 2009

**CENTERPOINT TANK SERVICES, INC**

Danielle Varnes  
536 Benjamin Franklin Highway  
Douglassville, PA 19518

RE: Liberty Oil #38 - Tamaqua

**Laboratory ID #: KSC0480**

Enclosed are the results of analyses for samples received by the laboratory on 03/26/09 11:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Oswaldo Burgos  
Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua  
Project Number: NA  
Project Manager: Danielle Varnes

**Reported:**  
04/06/09 09:31

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	KSC0480-01	Water	03/25/09 11:15	03/26/09 11:35
MW-2	KSC0480-02	Water	03/25/09 12:15	03/26/09 11:35
MW-3	KSC0480-03	Water	03/25/09 13:15	03/26/09 11:35



CENTERPOINT TANK SERVICES, INC  
 536 Benjamin Franklin Highway  
 Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua  
 Project Number: NA  
 Project Manager: Danielle Varnes

**Reported:**  
 04/06/09 09:31

## Dissolved Metals by EPA 200 Series Methods

### TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (KSC0480-01) Water Sampled: 03/25/09 11:15 Received: 03/26/09 11:35</b>									
Lead	ND	0.36	ug/l	1	9032722	03/27/09	03/30/09	EPA 200.8	
<b>MW-2 (KSC0480-02) Water Sampled: 03/25/09 12:15 Received: 03/26/09 11:35</b>									
Lead	ND	0.36	ug/l	1	9032722	03/27/09	03/30/09	EPA 200.8	
<b>MW-3 (KSC0480-03) Water Sampled: 03/25/09 13:15 Received: 03/26/09 11:35</b>									
Lead	ND	0.36	ug/l	1	9032722	03/27/09	03/30/09	EPA 200.8	

TestAmerica King Of Prussia

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua  
Project Number: NA  
Project Manager: Danielle Varnes

**Reported:**  
04/06/09 09:31

## Volatile Organic Compounds by EPA Method 8260B

### TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-1 (KSC0480-01) Water Sampled: 03/25/09 11:15 Received: 03/26/09 11:35

<b>Benzene</b>	<b>2.2</b>	1.0	ug/l	1	9040124	04/01/09	04/02/09	EPA 8260B	
Toluene	ND	2.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>3.6</b>	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Xylenes (total)	ND	6.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %	89.1-111		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70.8-124		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		93.9 %	83.5-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.1 %	77.7-126		"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	

MW-2 (KSC0480-02) Water Sampled: 03/25/09 12:15 Received: 03/26/09 11:35

<b>Benzene</b>	<b>5.7</b>	1.0	ug/l	1	9040124	04/01/09	04/02/09	EPA 8260B	
Toluene	ND	2.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>12</b>	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>8.0</b>	2.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>9.7</b>	5.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>110</b>	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Xylenes (total)	ND	6.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		103 %	89.1-111		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70.8-124		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.9 %	83.5-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.9 %	77.7-126		"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	

TestAmerica King Of Prussia

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC  
 536 Benjamin Franklin Highway  
 Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua  
 Project Number: NA  
 Project Manager: Danielle Varnes

**Reported:**  
 04/06/09 09:31

## Volatile Organic Compounds by EPA Method 8260B

### TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (KSC0480-03) Water Sampled: 03/25/09 13:15 Received: 03/26/09 11:35									
<b>Benzene</b>	<b>130</b>	1.0	ug/l	1	9040124	04/01/09	04/02/09	EPA 8260B	
<b>Toluene</b>	<b>6.9</b>	2.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>28</b>	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>6.3</b>	2.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>13</b>	5.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>9.9</b>	2.0	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>9.1</b>	2.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>31</b>	6.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %		89.1-111	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		101 %		70.8-124	"	"	"	"	
Surrogate: Toluene-d8		97.8 %		83.5-115	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %		77.7-126	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>120</b>	2.0	"	"	"	"	"	"	

TestAmerica King Of Prussia

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC  
 536 Benjamin Franklin Highway  
 Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua  
 Project Number: NA  
 Project Manager: Danielle Varnes

**Reported:**  
 04/06/09 09:31

## EDB by EPA 8011

### TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (KSC0480-01) Water Sampled: 03/25/09 11:15 Received: 03/26/09 11:35</b>									
1,2-Dibromoethane	ND	0.050	ug/l	1	9033003	03/31/09	03/31/09	EPA 8011	
<b>MW-2 (KSC0480-02) Water Sampled: 03/25/09 12:15 Received: 03/26/09 11:35</b>									
1,2-Dibromoethane	ND	0.050	ug/l	1	9033003	03/31/09	03/31/09	EPA 8011	
<b>MW-3 (KSC0480-03) Water Sampled: 03/25/09 13:15 Received: 03/26/09 11:35</b>									
1,2-Dibromoethane	ND	0.050	ug/l	1	9033003	03/31/09	03/31/09	EPA 8011	

TestAmerica King Of Prussia

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty Oil #38 - Tamaqua  
Project Number: NA  
Project Manager: Danielle Varnes

**Reported:**  
04/06/09 09:31

## Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED above reporting limit. If MDL is provided, analyte is NOT DETECTED above the MDL

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



**CHAIN OF CUSTODY REPORT**

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

1090 King Georges Post Rd  
Suite 803  
Edison, NJ 08837  
(732) 661-0777  
FAX (732) 661-0305

Client: **CENTER FOR WATER SERVICES** Bill To: **SHINE** TAT: **STD** 5 DAY 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS

Address: **550 E BEN FRANKLIN HWY** Address: **SAME** Received:  ice  ambient DATE RESULTS NEEDED:

Report to: **Douglasville PA 19518** Phone #: **(610) 385-4474** State & Program: **PA DEP WST** Phone #: **SAME** Deliverable Package:  NO  YES Temp. Upon Receipt: **0**

E-mail: **center@water.com** Fax #: **(610) 385-4178** Fax #: **SAME** if Yes, please explain

Project Name: **LIBERTY OIL #38**

Project #/PO#: \_\_\_\_\_

Sampler: **DUK**

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used						TOTAL # OF BOTTLES	LEADED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL	LABORATORY ID NUMBER
				MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH					
1 MW-1 PID:	3/25/09	1115	W	3					25	+	+		KSC0480-01	
2 MW-2 PID:	3/25	1215	W	3					25	+	+		-02	
3 MW-3 PID:	3/25	1315	W	3					25	+	+		-03	
4 PID:														
5 PID:														
6 PID:														
7 PID:														
8 PID:														
9 PID:														
10 PID:														

RELINQUISHED **3/26/09** RECEIVED **3/26/09** DATE TIME DATE TIME  
**C. J. Warkentin** **Time: 3:35** **Paul J. [Signature]** **Time: 11:35**

RELINQUISHED \_\_\_\_\_ RECEIVED \_\_\_\_\_ DATE TIME DATE TIME

COMMENTS: **NEW STANDARDS** **\*\* PLEASE LAB FILTER \*\***

PAGE \_\_\_\_\_ OF \_\_\_\_\_

21 October 2009

**CENTERPOINT TANK SERVICES, INC**

Pat Crawford  
536 Benjamin Franklin Highway  
Douglassville, PA 19518

RE: Liberty #38

**Laboratory ID #: KSI0620**

Enclosed are the results of analyses for samples received by the laboratory on 09/28/09 13:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read "O. Burgos", is written over a light gray rectangular background.

Oswaldo Burgos  
Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty #38  
Project Number: NA  
Project Manager: Pat Crawford

**This is a Revised Report**  
**Reported:**  
10/21/09 11:23

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	KSI0620-01	Water	09/24/09 14:00	09/28/09 13:45
MW-2	KSI0620-02	Water	09/24/09 13:28	09/28/09 13:45
MW-3	KSI0620-03	Water	09/24/09 14:34	09/28/09 13:45
MW-5	KSI0620-04	Water	09/24/09 13:00	09/28/09 13:45
MW-6	KSI0620-05	Water	09/24/09 12:35	09/28/09 13:45

Report revised to include MTBE per client request.



CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty #38  
Project Number: NA  
Project Manager: Pat Crawford

**This is a Revised Report**  
**Reported:**  
10/21/09 11:23

## Dissolved Metals by EPA 200 Series Methods

### TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (KSI0620-01) Water</b> Sampled: 09/24/09 14:00 Received: 09/28/09 13:45									
Lead	ND	0.36	ug/l	1	9093011	09/30/09	09/30/09	EPA 200.8	
<b>MW-2 (KSI0620-02) Water</b> Sampled: 09/24/09 13:28 Received: 09/28/09 13:45									
Lead	ND	0.36	ug/l	1	9093011	09/30/09	09/30/09	EPA 200.8	
<b>MW-3 (KSI0620-03) Water</b> Sampled: 09/24/09 14:34 Received: 09/28/09 13:45									
Lead	ND	0.36	ug/l	1	9093011	09/30/09	09/30/09	EPA 200.8	
<b>MW-5 (KSI0620-04) Water</b> Sampled: 09/24/09 13:00 Received: 09/28/09 13:45									
Lead	ND	0.36	ug/l	1	9093011	09/30/09	09/30/09	EPA 200.8	
<b>MW-6 (KSI0620-05) Water</b> Sampled: 09/24/09 12:35 Received: 09/28/09 13:45									
Lead	ND	0.36	ug/l	1	9093011	09/30/09	09/30/09	EPA 200.8	

TestAmerica King Of Prussia

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty #38  
Project Number: NA  
Project Manager: Pat Crawford

**This is a Revised Report**  
**Reported:**  
10/21/09 11:23

## Volatile Organic Compounds by EPA Method 8260B

### TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-1 (KSI0620-01) Water Sampled: 09/24/09 14:00 Received: 09/28/09 13:45

<b>Benzene</b>	<b>6.2</b>	1.0	ug/l	1	9100605	10/06/09	10/06/09	EPA 8260B	
Toluene	ND	2.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>3.2</b>	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>8.1</b>	8.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Xylenes (total)	ND	6.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		99.1 %	91-114		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.5 %	85-125		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.6 %	84-111		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.8 %	86-120		"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	

MW-2 (KSI0620-02) Water Sampled: 09/24/09 13:28 Received: 09/28/09 13:45

<b>Benzene</b>	<b>2.9</b>	1.0	ug/l	1	9100605	10/06/09	10/06/09	EPA 8260B	
Toluene	ND	2.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>5.8</b>	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>3.8</b>	2.0	"	"	"	"	"	"	
Naphthalene	ND	8.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>44</b>	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Xylenes (total)	ND	6.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		98.6 %	91-114		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.7 %	85-125		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.1 %	84-111		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.7 %	86-120		"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	

TestAmerica King Of Prussia

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty #38  
Project Number: NA  
Project Manager: Pat Crawford

**This is a Revised Report**  
**Reported:**  
10/21/09 11:23

## Volatile Organic Compounds by EPA Method 8260B

### TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

MW-3 (KSI0620-03) Water Sampled: 09/24/09 14:34 Received: 09/28/09 13:45

<b>Benzene</b>	<b>280</b>	1.0	ug/l	1	9100605	10/06/09	10/06/09	EPA 8260B	
<b>Toluene</b>	<b>84</b>	2.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>52</b>	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>6.1</b>	2.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>16</b>	8.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>81</b>	2.0	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>29</b>	2.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>160</b>	6.0	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane		95.8 %		91-114	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		89.7 %		85-125	"	"	"	"	
Surrogate: Toluene-d8		97.8 %		84-111	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.9 %		86-120	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>160</b>	2.0	"	"	"	"	"	"	

MW-5 (KSI0620-04) Water Sampled: 09/24/09 13:00 Received: 09/28/09 13:45

Benzene	ND	1.0	ug/l	1	9100605	10/06/09	10/06/09	EPA 8260B	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	8.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Xylenes (total)	ND	6.0	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane		96.8 %		91-114	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		93.6 %		85-125	"	"	"	"	
Surrogate: Toluene-d8		96.0 %		84-111	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %		86-120	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	

TestAmerica King Of Prussia

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty #38  
Project Number: NA  
Project Manager: Pat Crawford

**This is a Revised Report**  
**Reported:**  
10/21/09 11:23

## Volatile Organic Compounds by EPA Method 8260B

### TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (KSI0620-05) Water Sampled: 09/24/09 12:35 Received: 09/28/09 13:45									
Benzene	ND	1.0	ug/l	1	9100605	10/06/09	10/06/09	EPA 8260B	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	8.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Xylenes (total)	ND	6.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.4 %	91-114		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		90.5 %	85-125		"	"	"	"	
Surrogate: Toluene-d8		98.5 %	84-111		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.7 %	86-120		"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	

TestAmerica King Of Prussia

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty #38  
Project Number: NA  
Project Manager: Pat Crawford

**This is a Revised Report**  
**Reported:**  
10/21/09 11:23

**EDB by EPA 8011**  
**TestAmerica King Of Prussia**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (KSI0620-01) Water Sampled: 09/24/09 14:00 Received: 09/28/09 13:45</b>									
1,2-Dibromoethane	ND	0.050	ug/l	1	9093009	09/30/09	10/01/09	EPA 8011	
<b>MW-2 (KSI0620-02) Water Sampled: 09/24/09 13:28 Received: 09/28/09 13:45</b>									
1,2-Dibromoethane	ND	0.050	ug/l	1	9093009	09/30/09	10/01/09	EPA 8011	
<b>MW-3 (KSI0620-03) Water Sampled: 09/24/09 14:34 Received: 09/28/09 13:45</b>									
1,2-Dibromoethane	ND	0.050	ug/l	1	9093009	09/30/09	10/01/09	EPA 8011	
<b>MW-5 (KSI0620-04) Water Sampled: 09/24/09 13:00 Received: 09/28/09 13:45</b>									
1,2-Dibromoethane	ND	0.050	ug/l	1	9093009	09/30/09	10/01/09	EPA 8011	
<b>MW-6 (KSI0620-05) Water Sampled: 09/24/09 12:35 Received: 09/28/09 13:45</b>									
1,2-Dibromoethane	ND	0.050	ug/l	1	9093009	09/30/09	10/01/09	EPA 8011	

TestAmerica King Of Prussia

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty #38  
Project Number: NA  
Project Manager: Pat Crawford

**This is a Revised Report**  
**Reported:**  
10/21/09 11:23

## Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED above reporting limit. If MDL is provided, analyte is NOT DETECTED above the MDL

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference





20 November 2009

**CENTERPOINT TANK SERVICES, INC**

Pat Crawford  
536 Benjamin Franklin Highway  
Douglassville, PA 19518

RE: Liberty #38

**Laboratory ID #: KSK0273**

Enclosed are the results of analyses for samples received by the laboratory on 11/12/09 15:12. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read "O. Burgos", is written over a light gray rectangular background.

Oswaldo Burgos  
Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty #38  
Project Number: NA  
Project Manager: Pat Crawford

**Reported:**  
11/20/09 16:55

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
610 N Railroad St	KSK0273-01	Water	11/12/09 13:21	11/12/09 15:12

TestAmerica King Of Prussia

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty #38  
Project Number: NA  
Project Manager: Pat Crawford

**Reported:**  
11/20/09 16:55

## Volatile Organic Compounds by EPA Method 8260B

### TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>610 N Railroad St (KSK0273-01) Water</b> <b>Sampled: 11/12/09 13:21</b> <b>Received: 11/12/09 15:12</b>									
Benzene	ND	1.0	ug/l	1	9111327	11/13/09	11/14/09	EPA 8260B	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	8.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Xylenes (total)	ND	6.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		96.6 %		91-114	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %		85-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.1 %		84-111	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %		86-120	"	"	"	"	

TestAmerica King Of Prussia

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Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty #38  
Project Number: NA  
Project Manager: Pat Crawford

**Reported:**  
11/20/09 16:55

## Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED above reporting limit. If MDL is provided, analyte is NOT DETECTED above the MDL

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



## CHAIN OF CUSTODY REPORT

1608 W Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9930

Client: **CENTRAL DIST. TRUCK SERVICES**  
 Address: **52 E. BENJAMIN FRANKLIN HWY**  
 State & Program: **PA DEP WST**  
 Report to: **PA DEP WST** Phone #: **(610) 385-4974**  
 E-mail: **central@centraltruck.com** Fax #: **(610) 385-4974**  
 Project Name: **LIBERTY DR #38**  
 Project #/PO#: **WSV**  
 Sampler: **WSV**

Bill To: **SAMUE**  
 Address:   
 Terms: Net 30 days  
 Phone #:   
 Fax #:   
 TAT:  STD  5 DAY  4 DAY  3 DAY  2 DAY  1 DAY  24 HRS  
 Received:  ice  ambient  
 Deliverable Package:  NO  YES  
 Temp. Upon Receipt: **0**  
 If Yes, please explain:   
 ANALYSIS TYPE:   
 SAMPLE CONTROL:  CRACKED  IMPROPERLY SEALED  PROPERLY SEALED  
 LABORATORY ID NUMBER: **KSK0273-01**

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	ANALYSIS TYPE	LABORATORY ID NUMBER
				MeOH	DI	HCl	HNO3	H2SO4	NaOH	NONE				
1. <b>THOR'S CIRCLE</b> PID:	<b>11/4/09</b>	<b>1321</b>	<b>A7</b>			<b>3</b>					<b>3</b>			<b>KSK0273-01</b>
2. PID:														
3. PID:														
4. PID:														
5. PID:														
6. PID:														
7. PID:														
8. PID:														
9. PID:														
10. PID:														
RELINQUISHED <b>11/12/09</b> DATE <b>1512</b> TIME	RECEIVED <b>11/12/09</b> DATE <b>11:51</b> TIME													
RELINQUISHED <b>11/12/09</b> DATE <b>11:51</b> TIME	RECEIVED <b>11/12/09</b> DATE <b>11:51</b> TIME													

COMMENTS: **NEW STANDARDS**

**Cooler Receipt Form**

WORK ORDER #: 15K0273

Client: Centerpoint Tank

Project: Liberty Oil #3B

Temperature Upon Receipt by IR: 0

Cooler received from: TA Courier  Client  FedEx  UPS  Other:

Signature: [Signature] Date/Time: 11/12/09 1536

**For Received Shipments only:**

Number of Coolers: 1 2 3+

Ice Present?  Y  N  N/A  Melted

Custody Seals intact?  Y  N

Packing Material: Bubble Wrap Other None

Voa Vials have air bubbles > 6mm?  Y  N  N/A

ALL preserved containers (except VOA) checked for correct pH?  Y  N  N/A

Residual Chlorine checks done on each container that needs it?  Y  N  N/A

Sufficient volume for all analyses?  Y  N

All Sample Containers Intact:  Y  N

All Sample Containers labeled:  Y  N

All Sample Containers received:  Y  N

All Container labels match COC:  Y  N

**List Discrepancies below if indicated:**

Cooler Temperature: \_\_\_\_\_

Broken bottles: \_\_\_\_\_

Insufficient Volume: \_\_\_\_\_

Preservative Issues: \_\_\_\_\_

Samples preserved @ login (list each, amount & type added, time & date): \_\_\_\_\_

Headspace in VOAs: \_\_\_\_\_

Labels missing/illegible: \_\_\_\_\_

Hold Times: \_\_\_\_\_

Signature: [Signature] Date/Time: 11/13/09

**Review COC against Sample Acceptance Checklist:**

- |   |                                      |    |
|---|--------------------------------------|----|
| 1. Client Name & Address present                                | <input checked="" type="radio"/> Yes | No |
| 2. Project Name and/or Number included                          | <input checked="" type="radio"/> Yes | No |
| 3. Field Sampler Name listed                                    | <input checked="" type="radio"/> Yes | No |
| 4. Field ID/Location - one sample per line                      | <input checked="" type="radio"/> Yes | No |
| 5. Date collected (for each sample)                             | <input checked="" type="radio"/> Yes | No |
| 6. Time collected (for each sample)                             | <input checked="" type="radio"/> Yes | No |
| 7. Matrix (for each sample)                                     | <input checked="" type="radio"/> Yes | No |
| 8. Number & Types of bottles per sample (and preservation type) | <input checked="" type="radio"/> Yes | No |
| 9. Analysis Requested   | <input checked="" type="radio"/> Yes | No |
| 10. Sign & Date in the Relinquished Box                         | <input checked="" type="radio"/> Yes | No |

Discrepancies \_\_\_\_\_

Spec Sheet/CAR#: \_\_\_\_\_ PM or Client contacted?  Y  N  N/A

Signature: [Signature] Date/Time: 11/13/09

**Burgos, Ozzy**

**From:** William Johns-Villa [jv@centerpointtank.com]  
**Sent:** Friday, November 13, 2009 10:56 AM  
**To:** Burgos, Ozzy  
**Subject:** changes


Hey Ozzy,

Can you please change the 52<sup>nd</sup> street samples to the old standards.

For the sample called Thorn's Cycles (Liberty Oil #38 site), can you please change that to: 610 N Railroad St

Thanks a lot!

-jv-

=====  
William "JV" Johns-Villa  
Center Point Tank Services, Inc.  
536 E. Benjamin Franklin Highway  
Douglassville, PA 19518  
Phone : (610) 385-4977  
Fax: (610) 585-4978  
Cell (610) 955-7309  
 Please consider the environment before printing this e-mail.

11/20/2009

23 November 2009

**CENTERPOINT TANK SERVICES, INC**

Pat Crawford  
536 Benjamin Franklin Highway  
Douglassville, PA 19518

RE: Liberty #38

**Laboratory ID #: KSK0272**

Enclosed are the results of analyses for samples received by the laboratory on 11/12/09 13:12. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Crystal Pollock For Oswaldo Burgos  
Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty #38  
Project Number: NA  
Project Manager: Pat Crawford

**Reported:**  
11/23/09 09:21

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	KSK0272-01	Water	11/12/09 12:37	11/12/09 13:12
MW-2	KSK0272-02	Water	11/12/09 11:33	11/12/09 13:12
MW-3	KSK0272-03	Water	11/12/09 12:01	11/12/09 13:12
MW-4	KSK0272-04	Water	11/12/09 13:03	11/12/09 13:12
MW-5	KSK0272-05	Water	11/12/09 11:03	11/12/09 13:12
MW-6	KSK0272-06	Water	11/12/09 10:53	11/12/09 13:12



CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty #38  
Project Number: NA  
Project Manager: Pat Crawford

**Reported:**  
11/23/09 09:21

## Dissolved Metals by EPA 200 Series Methods

### TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (KSK0272-01) Water Sampled: 11/12/09 12:37 Received: 11/12/09 13:12</b>									
Lead	ND	0.36	ug/l	1	9111616	11/16/09	11/16/09	EPA 200.8	
<b>MW-2 (KSK0272-02) Water Sampled: 11/12/09 11:33 Received: 11/12/09 13:12</b>									
Lead	ND	0.36	ug/l	1	9111616	11/16/09	11/16/09	EPA 200.8	
<b>MW-3 (KSK0272-03) Water Sampled: 11/12/09 12:01 Received: 11/12/09 13:12</b>									
Lead	ND	0.36	ug/l	1	9111616	11/16/09	11/16/09	EPA 200.8	
<b>MW-4 (KSK0272-04) Water Sampled: 11/12/09 13:03 Received: 11/12/09 13:12</b>									
Lead	0.41	0.36	ug/l	1	9111616	11/16/09	11/16/09	EPA 200.8	
<b>MW-5 (KSK0272-05) Water Sampled: 11/12/09 11:03 Received: 11/12/09 13:12</b>									
Lead	ND	0.36	ug/l	1	9111616	11/16/09	11/16/09	EPA 200.8	
<b>MW-6 (KSK0272-06) Water Sampled: 11/12/09 10:53 Received: 11/12/09 13:12</b>									
Lead	0.64	0.36	ug/l	1	9111616	11/16/09	11/16/09	EPA 200.8	

TestAmerica King Of Prussia

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Crystal Pollock For Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty #38  
Project Number: NA  
Project Manager: Pat Crawford

**Reported:**  
11/23/09 09:21

## Volatile Organic Compounds by EPA Method 8260B

### TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**MW-1 (KSK0272-01) Water** Sampled: 11/12/09 12:37 Received: 11/12/09 13:12

Benzene	ND	1.0	ug/l	1	9111701	11/17/09	11/17/09	EPA 8260B	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	8.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Xylenes (total)	ND	6.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		106 %	91-114		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	85-125		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.7 %	84-111		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	86-120		"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		106 %	91-114		"	"	"	"	

**MW-2 (KSK0272-02) Water** Sampled: 11/12/09 11:33 Received: 11/12/09 13:12

Benzene	ND	1.0	ug/l	1	9111701	11/17/09	11/17/09	EPA 8260B	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	8.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Xylenes (total)	ND	6.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %	91-114		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	85-125		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		91.0 %	84-111		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	86-120		"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %	91-114		"	"	"	"	

TestAmerica King Of Prussia

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Crystal Pollock For Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty #38  
Project Number: NA  
Project Manager: Pat Crawford

**Reported:**  
11/23/09 09:21

## Volatile Organic Compounds by EPA Method 8260B

### TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-3 (KSK0272-03) Water</b> <b>Sampled: 11/12/09 12:01</b> <b>Received: 11/12/09 13:12</b>									
<b>Benzene</b>	<b>770</b>	20	ug/l	20	9111701	11/17/09	11/19/09	EPA 8260B	RL7
<b>Toluene</b>	<b>490</b>	2.0	"	1	"	"	11/17/09	"	
<b>Ethylbenzene</b>	<b>250</b>	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>26</b>	2.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>38</b>	8.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>270</b>	2.0	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>88</b>	2.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>820</b>	6.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		106 %		91-114	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %		85-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		91.9 %		84-111	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %		86-120	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>390</b>	40	"	20	"	"	11/19/09	"	RL7
<i>Surrogate: Dibromofluoromethane</i>		101 %		91-114	"	"	"	"	
<b>MW-4 (KSK0272-04) Water</b> <b>Sampled: 11/12/09 13:03</b> <b>Received: 11/12/09 13:12</b>									
<b>Benzene</b>	<b>4500</b>	20	ug/l	20	9111701	11/17/09	11/19/09	EPA 8260B	RL7
<b>Toluene</b>	<b>8400</b>	40	"	"	"	"	"	"	RL7
<b>Ethylbenzene</b>	<b>2100</b>	40	"	"	"	"	"	"	RL7
1,2-Dichloroethane	ND	1.0	"	1	"	"	11/17/09	"	
<b>Isopropylbenzene</b>	<b>120</b>	2.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>440</b>	8.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>2000</b>	40	"	20	"	"	11/19/09	"	RL7
<b>1,3,5-Trimethylbenzene</b>	<b>620</b>	40	"	"	"	"	"	"	RL7
<b>Xylenes (total)</b>	<b>9400</b>	120	"	"	"	"	"	"	RL7
<i>Surrogate: Dibromofluoromethane</i>		101 %		91-114	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %		85-125	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %		84-111	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %		86-120	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>970</b>	40	"	20	"	"	"	"	RL7
<i>Surrogate: Dibromofluoromethane</i>		101 %		91-114	"	"	"	"	

TestAmerica King Of Prussia

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Crystal Pollock For Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty #38  
Project Number: NA  
Project Manager: Pat Crawford

**Reported:**  
11/23/09 09:21

## Volatile Organic Compounds by EPA Method 8260B

### TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**MW-5 (KSK0272-05) Water** Sampled: 11/12/09 11:03 Received: 11/12/09 13:12

Benzene	ND	1.0	ug/l	1	9111701	11/17/09	11/19/09	EPA 8260B	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	8.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Xylenes (total)	ND	6.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %	91-114		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	85-125		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	84-111		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	86-120		"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %	91-114		"	"	"	"	

**MW-6 (KSK0272-06) Water** Sampled: 11/12/09 10:53 Received: 11/12/09 13:12

Benzene	ND	1.0	ug/l	1	9111701	11/17/09	11/19/09	EPA 8260B	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	8.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Xylenes (total)	ND	6.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		101 %	91-114		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.9 %	85-125		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	84-111		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	86-120		"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		101 %	91-114		"	"	"	"	

TestAmerica King Of Prussia

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Crystal Pollock For Oswaldo Burgos, Project Manager

CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty #38  
Project Number: NA  
Project Manager: Pat Crawford

**Reported:**  
11/23/09 09:21

## EDB by EPA 8011

### TestAmerica King Of Prussia

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (KSK0272-01) Water</b> Sampled: 11/12/09 12:37 Received: 11/12/09 13:12									
1,2-Dibromoethane	ND	0.050	ug/l	1	9111319	11/13/09	11/13/09	EPA 8011	
<b>MW-2 (KSK0272-02) Water</b> Sampled: 11/12/09 11:33 Received: 11/12/09 13:12									
1,2-Dibromoethane	ND	0.050	ug/l	1	9111319	11/13/09	11/14/09	EPA 8011	
<b>MW-3 (KSK0272-03) Water</b> Sampled: 11/12/09 12:01 Received: 11/12/09 13:12									
1,2-Dibromoethane	ND	0.050	ug/l	1	9111319	11/13/09	11/14/09	EPA 8011	
<b>MW-4 (KSK0272-04) Water</b> Sampled: 11/12/09 13:03 Received: 11/12/09 13:12									
1,2-Dibromoethane	ND	0.050	ug/l	1	9111319	11/13/09	11/14/09	EPA 8011	
<b>MW-5 (KSK0272-05) Water</b> Sampled: 11/12/09 11:03 Received: 11/12/09 13:12									
1,2-Dibromoethane	ND	0.050	ug/l	1	9111319	11/13/09	11/14/09	EPA 8011	
<b>MW-6 (KSK0272-06) Water</b> Sampled: 11/12/09 10:53 Received: 11/12/09 13:12									
1,2-Dibromoethane	ND	0.050	ug/l	1	9111319	11/13/09	11/14/09	EPA 8011	

TestAmerica King Of Prussia

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CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville PA, 19518

Project: Liberty #38  
Project Number: NA  
Project Manager: Pat Crawford

**Reported:**  
11/23/09 09:21

### Notes and Definitions

- RL7 Sample required dilution due to high concentrations of target analyte.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED above reporting limit. If MDL is provided, analyte is NOT DETECTED above the MDL
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



## CHAIN OF CUSTODY REPORT

1008 W. Ninth Avenue  
King of Prussia, PA 19106  
(610) 337-9992  
FAX (610) 337-0030

Client: **Central Point Tank Services**  
 Address: **530 E. BOSTON ST. FARMINGTON HILL MI 48334**  
 Report to: **DOUGLASSVILLE PA 19028**  
 E-mail: **centralpoint@centralpoint.com**  
 Project Name: **LIBERTY OIL #30**  
 Project #/PO#: \_\_\_\_\_  
 Sampler: **WSU**

Bill To: **SAMUE**  
 Address: \_\_\_\_\_  
 State & City: **MI**  
 Program: **PAVED LIST**  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_

Terms: **Net 30 days**  
 Deliverable Package:  ambient  NO  YES  
 temp. upon receipt: \_\_\_\_\_

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES SAMPLES FIELD FILTERED	ANALYSIS TYPE	LABORATORY ID NUMBER	
				MeOH	DI	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	NONE				
1 MW-1	11/10/09	12:47	AG	3	1						15	X	X	KSK0272-01
2 MW-2	11/10/09	11:33		3	1						15	X	X	02
3 MW-3	11/10/09	12:01		3	1						15	X	X	03
4 MW-4	11/10/09	13:03		3	1						15	X	X	04
5 MW-5	11/10/09	11:03		3	1						15	X	X	05
6 MW-6	11/10/09	10:53		3	1						15	X	X	06
7														
8														
9														
10														

RECEIVED: **11/10/09** DATE TIME  
 RELINQUISHED: **11/10/09** DATE TIME  
 RECEIVED: **11/10/09** DATE TIME  
 RELINQUISHED: **11/10/09** DATE TIME

COMMENTS: **- USE STANDARD 5 -**

**Cooler Receipt Form**

WORK ORDER #: KSK0272

Client: Centerpoint Toxic Project: Liberty O.I # 38

Temperature Upon Receipt by IR: 2

Cooler received from: TA Courier  Client  FedEx  UPS  Other:

Signature: [Signature] Date/Time: 11/12/09 1538

<b>For Received Shipments only:</b>	
Number of Coolers: <u>1 2 3+</u>	Custody Seals Intact? <u>Y N</u>
Ice Present? <u>Y N N/A Melted</u>	Packing Material: <u>Bubble Wrap Other None</u>

Voa Vials have air bubbles > 6mm? Y N N/A  
 ALL preserved containers (except VOA) checked for correct pH? Y N N/A  
 Residual Chlorine checks done on each container that needs it? Y N N/A  
 Sufficient volume for all analyses? Y N  
 All Sample Containers Intact? Y N All Sample Containers labeled? Y N  
 All Sample Containers received? Y N All Container labels match COC? Y N

**List Discrepancies below if indicated:**

Cooler Temperature: \_\_\_\_\_  
 Broken bottles: \_\_\_\_\_  
 Insufficient Volume: \_\_\_\_\_  
 Preservative Issues: \_\_\_\_\_  
 Samples preserved @ login (list each, amount & type added, time & date): \_\_\_\_\_  
 Headspace in VOAs: \_\_\_\_\_  
 Labels missing/illegible: \_\_\_\_\_  
 Hold Times: \_\_\_\_\_

Signature: [Signature] Date/Time: 11/13/09

**Review COC against Sample Acceptance Checklist:**

- |   |            |    |
|---|------------|----|
| 1. Client Name & Address present                                | <u>Yes</u> | No |
| 2. Project Name and/or Number included                          | <u>Yes</u> | No |
| 3. Field Sampler Name listed                                    | <u>Yes</u> | No |
| 4. Field ID/Location - one sample per line                      | <u>Yes</u> | No |
| 5. Date collected (for each sample)                             | <u>Yes</u> | No |
| 6. Time collected (for each sample)                             | <u>Yes</u> | No |
| 7. Matrix (for each sample)                                     | <u>Yes</u> | No |
| 8. Number & Types of bottles per sample (and preservation type) | <u>Yes</u> | No |
| 9. Analysis Requested   | <u>Yes</u> | No |
| 10. Sign & Date in the Relinquished Box                         | <u>Yes</u> | No |
- Discrepancies: \_\_\_\_\_

Spec Sheet/CAR#: \_\_\_\_\_ PM or Client contacted? Y N N/A

Signature: [Signature] Date/Time: 11/13/09



## Certificate of Analysis

Project Name:	TAMAQUA - PA SITE	Workorder:	9837436
Purchase Order:		Workorder ID:	Liberty Oil #38

JV  
Center Point Tank Services

April 13, 2010

Dear ,

Enclosed are the analytical results for samples received by the laboratory on Monday, March 29, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at [www.analyticallab.com](http://www.analyticallab.com) for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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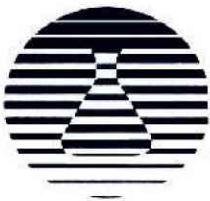
NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

CC: Ms. Rachel Burkart, Mr. Pat Crawford

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

  
Anna G Milliken  
Laboratory Manager



**SAMPLE SUMMARY**

Workorder: 9837436 Liberty Oil #38

Discard Date: 04/27/2010

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9837436001	MW-1	Ground Water	3/26/10 10:55	3/29/10 19:13	Customer
9837436002	MW-2	Ground Water	3/26/10 10:20	3/29/10 19:13	Customer
9837436003	MW-3	Ground Water	3/26/10 11:22	3/29/10 19:13	Customer
9837436004	MW-4	Ground Water	3/26/10 12:45	3/29/10 19:13	Customer
9837436005	MW-5	Ground Water	3/26/10 10:05	3/29/10 19:13	Customer
9837436006	MW-6	Ground Water	3/26/10 09:50	3/29/10 19:13	Customer
9837436007	MW-7	Ground Water	3/26/10 12:00	3/29/10 19:13	Customer
9837436008	MW-8	Ground Water	3/26/10 12:22	3/29/10 19:13	Customer

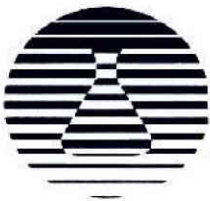
**Workorder Comments:**

**Notes**

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

**Standard Acronyms/Flags**

- J, B Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
- U Indicates that the analyte was Not Detected (ND)
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected - indicates that the analyte was Not Detected at the RDL
- Cntr Analysis was performed using this container
- RegLmt Regulatory Limit
- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- %Rec Percent Recovery
- RPD Relative Percent Difference



**ANALYTICAL RESULTS**

Workorder: 9837436 Liberty Oil #38

Lab ID: 9837436001

Date Collected: 3/26/2010 10:55

Matrix: Ground Water

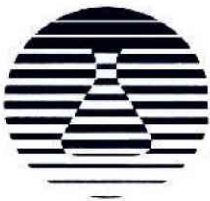
Sample ID: MW-1

Date Received: 3/29/2010 19:13

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			4/9/10 10:38	MES	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	4/5/10	CJW	4/7/10 06:52	CJW	C1
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			4/9/10 10:38	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			4/9/10 10:38	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			4/9/10 10:38	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			4/9/10 10:38	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			4/9/10 10:38	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B			4/9/10 10:38	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			4/9/10 10:38	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			4/9/10 10:38	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			4/9/10 10:38	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	115		%	70-130	EPA 504.1	4/5/10	CJW	4/7/10 06:52	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	104		%	62-133	SW846 8260B			4/9/10 10:38	MES	A
4-Bromofluorobenzene (S)	87.9		%	79-114	SW846 8260B			4/9/10 10:38	MES	A
Dibromofluoromethane (S)	96.4		%	78-116	SW846 8260B			4/9/10 10:38	MES	A
Toluene-d8 (S)	106		%	76-127	SW846 8260B			4/9/10 10:38	MES	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	4/7/10	LAM	4/8/10 00:31	LAM	E1

**Sample Comments:**

  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9837436 Liberty Oil #38

Lab ID: 9837436002

Date Collected: 3/26/2010 10:20

Matrix: Ground Water

Sample ID: MW-2

Date Received: 3/29/2010 19:13

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			4/9/10 13:27	MES	A
1,2-Dibromoethane	ND		ug/L	0.021	EPA 504.1	4/5/10	CJW	4/7/10 06:17	CJW	C1
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			4/9/10 13:27	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			4/9/10 13:27	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			4/9/10 13:27	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			4/9/10 13:27	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			4/9/10 13:27	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B			4/9/10 13:27	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			4/9/10 13:27	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			4/9/10 13:27	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			4/9/10 13:27	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	117		%	70-130	EPA 504.1	4/5/10	CJW	4/7/10 06:17	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	92.6		%	62-133	SW846 8260B			4/9/10 13:27	MES	A
4-Bromofluorobenzene (S)	101		%	79-114	SW846 8260B			4/9/10 13:27	MES	A
Dibromofluoromethane (S)	93.1		%	78-116	SW846 8260B			4/9/10 13:27	MES	A
Toluene-d8 (S)	85.4		%	76-127	SW846 8260B			4/9/10 13:27	MES	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	4/7/10	LAM	4/7/10 15:40	LAM	E1

**Sample Comments:**

  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9837436 Liberty Oil #38

Lab ID: 9837436003

Date Collected: 3/26/2010 11:22

Matrix: Ground Water

Sample ID: MW-3

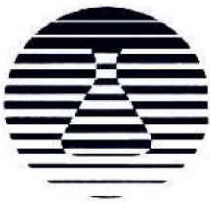
Date Received: 3/29/2010 19:13

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	511		ug/L	5.0	SW846 8260B			4/9/10 18:33	DJB	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	4/7/10	CJW	4/8/10 02:19	CJW	C1
1,2-Dichloroethane	ND		ug/L	5.0	SW846 8260B			4/9/10 18:33	DJB	A
Ethylbenzene	379		ug/L	5.0	SW846 8260B			4/9/10 18:33	DJB	A
Isopropylbenzene	51.9		ug/L	5.0	SW846 8260B			4/9/10 18:33	DJB	A
Methyl t-Butyl Ether	231		ug/L	5.0	SW846 8260B			4/9/10 18:33	DJB	A
Naphthalene	77.4		ug/L	10.0	SW846 8260B			4/9/10 18:33	DJB	A
Toluene	359		ug/L	5.0	SW846 8260B			4/9/10 18:33	DJB	A
Total Xylenes	1470		ug/L	15.0	SW846 8260B			4/9/10 18:33	DJB	A
1,2,4-Trimethylbenzene	628		ug/L	5.0	SW846 8260B			4/9/10 18:33	DJB	A
1,3,5-Trimethylbenzene	205		ug/L	5.0	SW846 8260B			4/9/10 18:33	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	117		%	70-130	EPA 504.1	4/7/10	CJW	4/8/10 02:19	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	98.3		%	62-133	SW846 8260B			4/9/10 18:33	DJB	A
4-Bromofluorobenzene (S)	95.4		%	79-114	SW846 8260B			4/9/10 18:33	DJB	A
Dibromofluoromethane (S)	97.9		%	78-116	SW846 8260B			4/9/10 18:33	DJB	A
Toluene-d8 (S)	107		%	76-127	SW846 8260B			4/9/10 18:33	DJB	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	4/7/10	LAM	4/7/10 15:50	LAM	E1

**Sample Comments:**

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9837436 Liberty Oil #38

Lab ID: 9837436004

Date Collected: 3/26/2010 12:45

Matrix: Ground Water

Sample ID: MW-4

Date Received: 3/29/2010 19:13

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	5560		ug/L	100	SW846 8260B			4/13/10 08:10	JAH	B
1,2-Dibromoethane	ND		ug/L	0.021	EPA 504.1	4/7/10	CJW	4/8/10 04:00	CJW	C1
1,2-Dichloroethane	ND		ug/L	5.0	SW846 8260B			4/9/10 19:39	DJB	A
Ethylbenzene	1770		ug/L	100	SW846 8260B			4/13/10 08:10	JAH	B
Isopropylbenzene	74.2		ug/L	5.0	SW846 8260B			4/9/10 19:39	DJB	A
Methyl t-Butyl Ether	1620		ug/L	100	SW846 8260B			4/13/10 08:10	JAH	B
Naphthalene	343		ug/L	10.0	SW846 8260B			4/9/10 19:39	DJB	A
Toluene	11200		ug/L	100	SW846 8260B			4/13/10 08:10	JAH	B
Total Xylenes	9900		ug/L	300	SW846 8260B			4/13/10 08:10	JAH	B
1,2,4-Trimethylbenzene	2060		ug/L	100	SW846 8260B			4/13/10 08:10	JAH	B
1,3,5-Trimethylbenzene	465		ug/L	5.0	SW846 8260B			4/9/10 19:39	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	108		%	70-130	EPA 504.1	4/7/10	CJW	4/8/10 04:00	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	99		%	62-133	SW846 8260B			4/9/10 19:39	DJB	A
4-Bromofluorobenzene (S)	96.1		%	79-114	SW846 8260B			4/9/10 19:39	DJB	A
Dibromofluoromethane (S)	97.3		%	78-116	SW846 8260B			4/9/10 19:39	DJB	A
Toluene-d8 (S)	110		%	76-127	SW846 8260B			4/9/10 19:39	DJB	A
1,2-Dichloroethane-d4 (S)	98.1		%	62-133	SW846 8260B			4/13/10 08:10	JAH	B
Dibromofluoromethane (S)	98.1		%	78-116	SW846 8260B			4/13/10 08:10	JAH	B
Toluene-d8 (S)	106		%	76-127	SW846 8260B			4/13/10 08:10	JAH	B
4-Bromofluorobenzene (S)	94.9		%	79-114	SW846 8260B			4/13/10 08:10	JAH	B
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	4/7/10	LAM	4/7/10 15:52	LAM	E1

**Sample Comments:**

A dilution of the GCMS volatiles analysis was performed outside of the holding time because one or more of the analytes exceeded the calibration range in the initial analysis.

  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9837436 Liberty Oil #38

Lab ID: 9837436005

Date Collected: 3/26/2010 10:05

Matrix: Ground Water

Sample ID: MW-5

Date Received: 3/29/2010 19:13

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			4/9/10 17:27	DJB	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	4/5/10	CJW	4/7/10 05:41	CJW	C1
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			4/9/10 17:27	DJB	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			4/9/10 17:27	DJB	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			4/9/10 17:27	DJB	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			4/9/10 17:27	DJB	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			4/9/10 17:27	DJB	A
Toluene	ND		ug/L	1.0	SW846 8260B			4/9/10 17:27	DJB	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			4/9/10 17:27	DJB	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			4/9/10 17:27	DJB	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			4/9/10 17:27	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	116		%	70-130	EPA 504.1	4/5/10	CJW	4/7/10 05:41	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	98.4		%	62-133	SW846 8260B			4/9/10 17:27	DJB	A
4-Bromofluorobenzene (S)	86.7		%	79-114	SW846 8260B			4/9/10 17:27	DJB	A
Dibromofluoromethane (S)	95.7		%	78-116	SW846 8260B			4/9/10 17:27	DJB	A
Toluene-d8 (S)	109		%	76-127	SW846 8260B			4/9/10 17:27	DJB	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	4/7/10	LAM	4/7/10 15:54	LAM	E1

**Sample Comments:**

  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9837436 Liberty Oil #38

Lab ID: 9837436006

Date Collected: 3/26/2010 09:50

Matrix: Ground Water

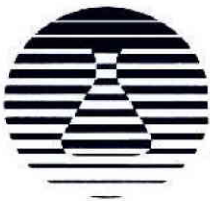
Sample ID: MW-6

Date Received: 3/29/2010 19:13

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			4/9/10 16:54	DJB	A
1,2-Dibromoethane	ND		ug/L	0.021	EPA 504.1	4/5/10	CJW	4/7/10 05:08	CJW	C1
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			4/9/10 16:54	DJB	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			4/9/10 16:54	DJB	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			4/9/10 16:54	DJB	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			4/9/10 16:54	DJB	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			4/9/10 16:54	DJB	A
Toluene	ND		ug/L	1.0	SW846 8260B			4/9/10 16:54	DJB	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			4/9/10 16:54	DJB	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			4/9/10 16:54	DJB	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			4/9/10 16:54	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	104		%	70-130	EPA 504.1	4/5/10	CJW	4/7/10 05:08	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.4		%	62-133	SW846 8260B			4/9/10 16:54	DJB	A
4-Bromofluorobenzene (S)	88.8		%	79-114	SW846 8260B			4/9/10 16:54	DJB	A
Dibromofluoromethane (S)	94		%	78-116	SW846 8260B			4/9/10 16:54	DJB	A
Toluene-d8 (S)	104		%	76-127	SW846 8260B			4/9/10 16:54	DJB	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	4/7/10	LAM	4/7/10 15:56	LAM	E1

**Sample Comments:**

  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9837436 Liberty Oil #38

Lab ID: 9837436007

Date Collected: 3/26/2010 12:00

Matrix: Ground Water

Sample ID: MW-7

Date Received: 3/29/2010 19:13

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	931		ug/L	5.0	SW846 8260B			4/9/10 19:06	DJB	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	4/7/10	CJW	4/8/10 02:53	CJW	C1
1,2-Dichloroethane	ND		ug/L	5.0	SW846 8260B			4/9/10 19:06	DJB	A
Ethylbenzene	431		ug/L	5.0	SW846 8260B			4/9/10 19:06	DJB	A
Isopropylbenzene	24.7		ug/L	5.0	SW846 8260B			4/9/10 19:06	DJB	A
Methyl t-Butyl Ether	513		ug/L	5.0	SW846 8260B			4/9/10 19:06	DJB	A
Naphthalene	120		ug/L	10.0	SW846 8260B			4/9/10 19:06	DJB	A
Toluene	1250		ug/L	25.0	SW846 8260B			4/13/10 07:36	JAH	B
Total Xylenes	973		ug/L	15.0	SW846 8260B			4/9/10 19:06	DJB	A
1,2,4-Trimethylbenzene	336		ug/L	5.0	SW846 8260B			4/9/10 19:06	DJB	A
1,3,5-Trimethylbenzene	72.5		ug/L	5.0	SW846 8260B			4/9/10 19:06	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	113		%	70-130	EPA 504.1	4/7/10	CJW	4/8/10 02:53	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.6		%	62-133	SW846 8260B			4/9/10 19:06	DJB	A
Dibromofluoromethane (S)	98		%	78-116	SW846 8260B			4/9/10 19:06	DJB	A
Toluene-d8 (S)	109		%	76-127	SW846 8260B			4/9/10 19:06	DJB	A
4-Bromofluorobenzene (S)	98.6		%	79-114	SW846 8260B			4/9/10 19:06	DJB	A
1,2-Dichloroethane-d4 (S)	85.4		%	62-133	SW846 8260B			4/13/10 07:36	JAH	B
4-Bromofluorobenzene (S)	91.7		%	79-114	SW846 8260B			4/13/10 07:36	JAH	B
Toluene-d8 (S)	105		%	76-127	SW846 8260B			4/13/10 07:36	JAH	B
Dibromofluoromethane (S)	96		%	78-116	SW846 8260B			4/13/10 07:36	JAH	B
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	4/7/10	LAM	4/7/10 15:58	LAM	E1

**Sample Comments:**

A dilution of the GCMS volatiles analysis was performed outside of the holding time because one or more of the analytes exceeded the calibration range in the initial analysis.

  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9837436 Liberty Oil #38

Lab ID: 9837436008

Date Collected: 3/26/2010 12:22

Matrix: Ground Water

Sample ID: MW-8

Date Received: 3/29/2010 19:13

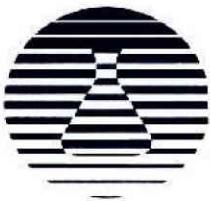
Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	865		ug/L	5.0	SW846 8260B			4/9/10 18:00	DJB	B
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	4/7/10	CJW	4/9/10 00:59	CJW	C1
1,2-Dichloroethane	ND		ug/L	5.0	SW846 8260B			4/9/10 18:00	DJB	B
Ethylbenzene	510		ug/L	5.0	SW846 8260B			4/9/10 18:00	DJB	B
Isopropylbenzene	44.1		ug/L	5.0	SW846 8260B			4/9/10 18:00	DJB	B
Methyl t-Butyl Ether	96.6		ug/L	5.0	SW846 8260B			4/9/10 18:00	DJB	B
Naphthalene	110		ug/L	10.0	SW846 8260B			4/9/10 18:00	DJB	B
Toluene	758		ug/L	5.0	SW846 8260B			4/9/10 18:00	DJB	B
Total Xylenes	1850		ug/L	15.0	SW846 8260B			4/9/10 18:00	DJB	B
1,2,4-Trimethylbenzene	843		ug/L	5.0	SW846 8260B			4/9/10 18:00	DJB	B
1,3,5-Trimethylbenzene	252		ug/L	5.0	SW846 8260B			4/9/10 18:00	DJB	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	112		%	70-130	EPA 504.1	4/7/10	CJW	4/9/10 00:59	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	94.2		%	62-133	SW846 8260B			4/9/10 18:00	DJB	B
4-Bromofluorobenzene (S)	91.5		%	79-114	SW846 8260B			4/9/10 18:00	DJB	B
Dibromofluoromethane (S)	93.1		%	78-116	SW846 8260B			4/9/10 18:00	DJB	B
Toluene-d8 (S)	111		%	76-127	SW846 8260B			4/9/10 18:00	DJB	B
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	4/7/10	LAM	4/7/10 16:00	LAM	E1

**Sample Comments:**

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

*Anna G Milliken*  
Anna G Milliken  
Laboratory Manager





## Certificate of Analysis

Project Name:	Liberty Oil #38	Workorder:	9848290
Purchase Order:		Workorder ID:	Liberty Oil #38

JV  
Center Point Tank Services

June 10, 2010

Dear ,

Enclosed are the analytical results for samples received by the laboratory on Thursday, June 03, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at [www.analyticallab.com](http://www.analyticallab.com) for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

CC: Ms. Rachel Burkart, Mr. Pat Crawford

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

  
Anna G Milliken  
Laboratory Manager



**SAMPLE SUMMARY**

Workorder: 9848290 Liberty Oil #38

Discard Date: 06/24/2010

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9848290001	MW-1	Ground Water	6/2/10 11:12	6/3/10 20:55	Customer
9848290002	MW-2	Ground Water	6/2/10 11:36	6/3/10 20:55	Customer
9848290003	MW-3	Ground Water	6/2/10 12:57	6/3/10 20:55	Customer
9848290004	MW-5	Ground Water	6/2/10 10:47	6/3/10 20:55	Customer
9848290005	MW-6	Ground Water	6/2/10 10:26	6/3/10 20:55	Customer
9848290006	MW-7	Ground Water	6/2/10 12:28	6/3/10 20:55	Customer
9848290007	MW-8	Ground Water	6/2/10 12:01	6/3/10 20:55	Customer

**Workorder Comments:**

**Notes**

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

**Standard Acronyms/Flags**

- J, B Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
- U Indicates that the analyte was Not Detected (ND)
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected - indicates that the analyte was Not Detected at the RDL
- Cntr Analysis was performed using this container
- RegLmt Regulatory Limit
- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- %Rec Percent Recovery
- RPD Relative Percent Difference



**ANALYTICAL RESULTS**

Workorder: 9848290 Liberty Oil #38

Lab ID: 9848290001

Date Collected: 6/2/2010 11:12

Matrix: Ground Water

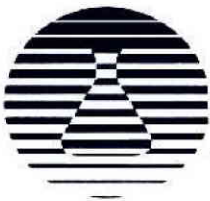
Sample ID: MW-1

Date Received: 6/3/2010 20:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			6/9/10 21:03	DJB	B
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	6/4/10	JLH	6/5/10 03:02	CJW	C1
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			6/9/10 21:03	DJB	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			6/9/10 21:03	DJB	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			6/9/10 21:03	DJB	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			6/9/10 21:03	DJB	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			6/9/10 21:03	DJB	B
Toluene	ND		ug/L	1.0	SW846 8260B			6/9/10 21:03	DJB	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B			6/9/10 21:03	DJB	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			6/9/10 21:03	DJB	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			6/9/10 21:03	DJB	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	81.9		%	70-130	EPA 504.1	6/4/10	JLH	6/5/10 03:02	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	97.8		%	62-133	SW846 8260B			6/9/10 21:03	DJB	B
4-Bromofluorobenzene (S)	95.9		%	79-114	SW846 8260B			6/9/10 21:03	DJB	B
Dibromofluoromethane (S)	98.8		%	78-116	SW846 8260B			6/9/10 21:03	DJB	B
Toluene-d8 (S)	95.1		%	76-127	SW846 8260B			6/9/10 21:03	DJB	B
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	6/9/10	BLB	6/9/10 21:50	LAM	E1

**Sample Comments:**

  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9848290 Liberty Oil #38

Lab ID: 9848290002

Date Collected: 6/2/2010 11:36

Matrix: Ground Water

Sample ID: MW-2

Date Received: 6/3/2010 20:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			6/9/10 21:37	DJB	B
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	6/4/10	JLH	6/5/10 03:36	CJW	C1
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			6/9/10 21:37	DJB	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			6/9/10 21:37	DJB	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			6/9/10 21:37	DJB	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			6/9/10 21:37	DJB	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			6/9/10 21:37	DJB	B
Toluene	ND		ug/L	1.0	SW846 8260B			6/9/10 21:37	DJB	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B			6/9/10 21:37	DJB	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			6/9/10 21:37	DJB	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			6/9/10 21:37	DJB	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	86		%	70-130	EPA 504.1	6/4/10	JLH	6/5/10 03:36	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	100		%	62-133	SW846 8260B			6/9/10 21:37	DJB	B
4-Bromofluorobenzene (S)	95.5		%	79-114	SW846 8260B			6/9/10 21:37	DJB	B
Dibromofluoromethane (S)	101		%	78-116	SW846 8260B			6/9/10 21:37	DJB	B
Toluene-d8 (S)	93.4		%	76-127	SW846 8260B			6/9/10 21:37	DJB	B
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	6/9/10	BLB	6/9/10 21:58	LAM	E1

**Sample Comments:**

*Anna G Milliken*  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9848290 Liberty Oil #38

Lab ID: 9848290003

Date Collected: 6/2/2010 12:57

Matrix: Ground Water

Sample ID: MW-3

Date Received: 6/3/2010 20:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	96.9		ug/L	1.0	SW846 8260B			6/9/10 20:29	DJB	B
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	6/4/10	JLH	6/5/10 04:13	CJW	C1
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			6/9/10 20:29	DJB	B
Ethylbenzene	23.2		ug/L	1.0	SW846 8260B			6/9/10 20:29	DJB	B
Isopropylbenzene	3.5		ug/L	1.0	SW846 8260B			6/9/10 20:29	DJB	B
Methyl t-Butyl Ether	58.8		ug/L	1.0	SW846 8260B			6/9/10 20:29	DJB	B
Naphthalene	5.1		ug/L	2.0	SW846 8260B			6/9/10 20:29	DJB	B
Toluene	24.7		ug/L	1.0	SW846 8260B			6/9/10 20:29	DJB	B
Total Xylenes	68.3		ug/L	3.0	SW846 8260B			6/9/10 20:29	DJB	B
1,2,4-Trimethylbenzene	39.4		ug/L	1.0	SW846 8260B			6/9/10 20:29	DJB	B
1,3,5-Trimethylbenzene	14.5		ug/L	1.0	SW846 8260B			6/9/10 20:29	DJB	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	79.8		%	70-130	EPA 504.1	6/4/10	JLH	6/5/10 04:13	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	94.7		%	62-133	SW846 8260B			6/9/10 20:29	DJB	B
4-Bromofluorobenzene (S)	90.1		%	79-114	SW846 8260B			6/9/10 20:29	DJB	B
Dibromofluoromethane (S)	96.1		%	78-116	SW846 8260B			6/9/10 20:29	DJB	B
Toluene-d8 (S)	96		%	76-127	SW846 8260B			6/9/10 20:29	DJB	B
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	6/9/10	BLB	6/9/10 22:01	LAM	E1

**Sample Comments:**

  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9848290 Liberty Oil #38

Lab ID: 9848290004

Date Collected: 6/2/2010 10:47

Matrix: Ground Water

Sample ID: MW-5

Date Received: 6/3/2010 20:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			6/8/10 18:39	DJB	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	6/4/10	JLH	6/5/10 04:51	CJW	C1
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			6/8/10 18:39	DJB	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			6/8/10 18:39	DJB	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			6/8/10 18:39	DJB	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			6/8/10 18:39	DJB	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			6/8/10 18:39	DJB	A
Toluene	ND		ug/L	1.0	SW846 8260B			6/8/10 18:39	DJB	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			6/8/10 18:39	DJB	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			6/8/10 18:39	DJB	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			6/8/10 18:39	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	96.9		%	70-130	EPA 504.1	6/4/10	JLH	6/5/10 04:51	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	98.4		%	62-133	SW846 8260B			6/8/10 18:39	DJB	A
4-Bromofluorobenzene (S)	97.5		%	79-114	SW846 8260B			6/8/10 18:39	DJB	A
Dibromofluoromethane (S)	98.8		%	78-116	SW846 8260B			6/8/10 18:39	DJB	A
Toluene-d8 (S)	93.7		%	76-127	SW846 8260B			6/8/10 18:39	DJB	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	6/9/10	BLB	6/9/10 22:03	LAM	E1

**Sample Comments:**

  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9848290 Liberty Oil #38

Lab ID: 9848290005

Date Collected: 6/2/2010 10:26

Matrix: Ground Water

Sample ID: MW-6

Date Received: 6/3/2010 20:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			6/8/10 19:13	DJB	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	6/4/10	JLH	6/5/10 05:29	CJW	C1
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			6/8/10 19:13	DJB	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			6/8/10 19:13	DJB	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			6/8/10 19:13	DJB	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			6/8/10 19:13	DJB	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			6/8/10 19:13	DJB	A
Toluene	ND		ug/L	1.0	SW846 8260B			6/8/10 19:13	DJB	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			6/8/10 19:13	DJB	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			6/8/10 19:13	DJB	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			6/8/10 19:13	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	88		%	70-130	EPA 504.1	6/4/10	JLH	6/5/10 05:29	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	103		%	62-133	SW846 8260B			6/8/10 19:13	DJB	A
4-Bromofluorobenzene (S)	94.6		%	79-114	SW846 8260B			6/8/10 19:13	DJB	A
Dibromofluoromethane (S)	101		%	78-116	SW846 8260B			6/8/10 19:13	DJB	A
Toluene-d8 (S)	91.6		%	76-127	SW846 8260B			6/8/10 19:13	DJB	A
<b>METALS</b>										
Lead, Dissolved	0.040		mg/L	0.0020	SW846 6020A	6/9/10	BLB	6/9/10 22:06	LAM	E1

**Sample Comments:**

  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9848290 Liberty Oil #38

Lab ID: 9848290006

Date Collected: 6/2/2010 12:28

Matrix: Ground Water

Sample ID: MW-7

Date Received: 6/3/2010 20:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	712		ug/L	5.0	SW846 8260B			6/8/10 23:40	DJB	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	6/4/10	JLH	6/5/10 06:11	CJW	C1
1,2-Dichloroethane	ND		ug/L	5.0	SW846 8260B			6/8/10 23:40	DJB	A
Ethylbenzene	340		ug/L	5.0	SW846 8260B			6/8/10 23:40	DJB	A
Isopropylbenzene	21.8		ug/L	5.0	SW846 8260B			6/8/10 23:40	DJB	A
Methyl t-Butyl Ether	477		ug/L	5.0	SW846 8260B			6/8/10 23:40	DJB	A
Naphthalene	91.1		ug/L	10.0	SW846 8260B			6/8/10 23:40	DJB	A
Toluene	433		ug/L	5.0	SW846 8260B			6/8/10 23:40	DJB	A
Total Xylenes	479		ug/L	15.0	SW846 8260B			6/8/10 23:40	DJB	A
1,2,4-Trimethylbenzene	202		ug/L	5.0	SW846 8260B			6/8/10 23:40	DJB	A
1,3,5-Trimethylbenzene	37.1		ug/L	5.0	SW846 8260B			6/8/10 23:40	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	92.3		%	70-130	EPA 504.1	6/4/10	JLH	6/5/10 06:11	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	98.1		%	62-133	SW846 8260B			6/8/10 23:40	DJB	A
4-Bromofluorobenzene (S)	95.8		%	79-114	SW846 8260B			6/8/10 23:40	DJB	A
Dibromofluoromethane (S)	99.6		%	78-116	SW846 8260B			6/8/10 23:40	DJB	A
Toluene-d8 (S)	90.5		%	76-127	SW846 8260B			6/8/10 23:40	DJB	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	6/9/10	BLB	6/9/10 22:09	LAM	E1

**Sample Comments:**

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

*Anna G Milliken*  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9848290 Liberty Oil #38

Lab ID: 9848290007

Date Collected: 6/2/2010 12:01

Matrix: Ground Water

Sample ID: MW-8

Date Received: 6/3/2010 20:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	820		ug/L	5.0	SW846 8260B			6/8/10 22:33	DJB	A
1,2-Dibromoethane	0.12		ug/L	0.020	EPA 504.1	6/4/10	JLH	6/5/10 07:23	CJW	C1
1,2-Dichloroethane	ND		ug/L	5.0	SW846 8260B			6/8/10 22:33	DJB	A
Ethylbenzene	473		ug/L	5.0	SW846 8260B			6/8/10 22:33	DJB	A
Isopropylbenzene	43.9		ug/L	5.0	SW846 8260B			6/8/10 22:33	DJB	A
Methyl t-Butyl Ether	119		ug/L	5.0	SW846 8260B			6/8/10 22:33	DJB	A
Naphthalene	110		ug/L	10.0	SW846 8260B			6/8/10 22:33	DJB	A
Toluene	709		ug/L	5.0	SW846 8260B			6/8/10 22:33	DJB	A
Total Xylenes	1810		ug/L	15.0	SW846 8260B			6/8/10 22:33	DJB	A
1,2,4-Trimethylbenzene	701		ug/L	5.0	SW846 8260B			6/8/10 22:33	DJB	A
1,3,5-Trimethylbenzene	211		ug/L	5.0	SW846 8260B			6/8/10 22:33	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	86.8		%	70-130	EPA 504.1	6/4/10	JLH	6/5/10 07:23	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	103		%	62-133	SW846 8260B			6/8/10 22:33	DJB	A
4-Bromofluorobenzene (S)	94.4		%	79-114	SW846 8260B			6/8/10 22:33	DJB	A
Dibromofluoromethane (S)	102		%	78-116	SW846 8260B			6/8/10 22:33	DJB	A
Toluene-d8 (S)	90.1		%	76-127	SW846 8260B			6/8/10 22:33	DJB	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	6/9/10	BLB	6/9/10 22:12	LAM	E1

**Sample Comments:**

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

  
Anna G Milliken  
Laboratory Manager



# ANALYTICAL LABORATORY SERVICES, INC.

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PA 22-293 NJ PA010



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## CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/SAMPLER. INSTRUCTIONS ON THE BACK.

Analytical Laboratory Services, Inc.  
Environmental • Industrial Hygiene • Field Services

34 Dogwood Lane • Middletown, PA 17057 • 717-944-5541 • Fax: 717-944-1430

Co. Name: **Center Point Tank Services, Inc.**  
Contact (Report to): **William F.E. Jones** Phone: **610 385-7977**  
Address: **536 E. Bar Franklin Hwy**  
**Douglasville, PA 19318**

Bill to (if different than Report to): **SAME** PO#:

Project Name#: **Liberty O.I. #38** ALSI Quote #:  
TAT:  Normal-Standard TAT is 10-12 business days **5 day** Date Required:  
 Rush-Subject to ALSI approval and surcharges. **TAT** Approved By:

Email?  Y  N  
Fax?  Y  N

Sample Description/Location <small>(as it will appear on the lab report)</small>	COC Comments	Sample Date	Military Time
1 MW-1		10/21/05	1112 GBW5
2 MW-2			1136
3 MW-3			1257
4 MW-4			1047
5 MW-5			1026
6 MW-6			1028
7 MW-7			1001
8 MW-8			

SAMPLED BY (Please Print): **JV**

LOGGED BY (Signature):

REVIEWED BY (Signature):

Reinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
<i>[Signature]</i>	6/3/05	1105	<i>[Signature]</i>	6/3	1105
<i>[Signature]</i>	6/3	1200	<i>[Signature]</i>	6/3	1300
<i>[Signature]</i>	6/3	2055	<i>[Signature]</i>	6/3	2055

Container Type: **CG CG PL**  
Container Size: **40ml Amber 360ml**  
Preservative: **HCL NINE HNO3**

ANALYSIS METHOD REQUESTED

Enter Number of Containers Per Analysis

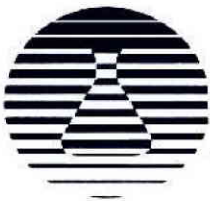
Correct containers?	Y	N
Correct sample volume?	Y	N
Correct preservation?	Y	N
Headspace/Volatiles?	Y	N
COC Labels complete/accurate?	Y	N
Container in good condition?	Y	N

ALS FIELD SERVICES  
 Pickup  
 Labor  
 Composite Sampling  
 Rental Equipment  
 Other:



Page **1** of **1**  
Counter: \_\_\_\_\_  
Tracking #: \_\_\_\_\_

\* G-Grab; C-Composite  
\*\*Matrix: AL=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; W=Waste  
\*\*\*Container Type: AG=Amber Glass; CG=Clear Glass; PL=Plastic. Container Size: 250ml, 500ml, 1L, 5oz., etc. Preservative: HCl, HNO3, NaOH, etc.  
Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY  
Rev 6/07



## Certificate of Analysis

Project Name:	Liberty Oil #38	Workorder:	9863628
Purchase Order:	08-12-4292	Workorder ID:	Liberty Oil #38

JV  
Center Point Tank Services

September 10, 2010

Dear ,

Enclosed are the analytical results for samples received by the laboratory on Thursday, September 02, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at [www.analyticallab.com](http://www.analyticallab.com) for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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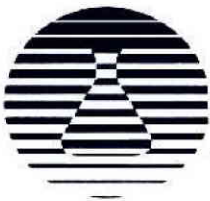
NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

CC: Ms. Rachel Burkart, Mr. Pat Crawford

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

  
Anna G Milliken  
Laboratory Manager



**SAMPLE SUMMARY**

Workorder: 9863628 Liberty Oil #38

Discard Date: 09/24/2010

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9863628001	MW-1	Ground Water	9/1/10 10:42	9/2/10 20:00	Customer
9863628002	MW-2	Ground Water	9/1/10 11:09	9/2/10 20:00	Customer
9863628003	MW-3	Ground Water	9/1/10 11:45	9/2/10 20:00	Customer
9863628004	MW-5	Ground Water	9/1/10 10:10	9/2/10 20:00	Customer
9863628005	MW-6	Ground Water	9/1/10 09:50	9/2/10 20:00	Customer
9863628006	MW-7	Ground Water	9/1/10 12:12	9/2/10 20:00	Customer

**Workorder Comments:**

**Notes**

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

**Standard Acronyms/Flags**

- J, B Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
- U Indicates that the analyte was Not Detected (ND)
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected - indicates that the analyte was Not Detected at the RDL
- Cntr Analysis was performed using this container
- RegLmt Regulatory Limit
- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- %Rec Percent Recovery
- RPD Relative Percent Difference



**ANALYTICAL RESULTS**

Workorder: 9863628 Liberty Oil #38

Lab ID: 9863628001

Date Collected: 9/1/2010 10:42

Matrix: Ground Water

Sample ID: MW-1

Date Received: 9/2/2010 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			9/3/10 21:28	DJB	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	9/8/10	JLH	9/10/10 01:39	CJW	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			9/3/10 21:28	DJB	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			9/3/10 21:28	DJB	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			9/3/10 21:28	DJB	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			9/3/10 21:28	DJB	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			9/3/10 21:28	DJB	A
Toluene	ND		ug/L	1.0	SW846 8260B			9/3/10 21:28	DJB	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			9/3/10 21:28	DJB	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			9/3/10 21:28	DJB	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			9/3/10 21:28	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	86.3		%	70-130	EPA 504.1	9/8/10	JLH	9/10/10 01:39	CJW	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	82.7		%	62-133	SW846 8260B			9/3/10 21:28	DJB	A
4-Bromofluorobenzene (S)	84.5		%	79-114	SW846 8260B			9/3/10 21:28	DJB	A
Dibromofluoromethane (S)	89.6		%	78-116	SW846 8260B			9/3/10 21:28	DJB	A
Toluene-d8 (S)	88.3		%	76-127	SW846 8260B			9/3/10 21:28	DJB	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	9/6/10	BLB	9/7/10 06:49	BLB	E1

**Sample Comments:**

  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9863628 Liberty Oil #38

Lab ID: 9863628002 Date Collected: 9/1/2010 11:09 Matrix: Ground Water  
Sample ID: MW-2 Date Received: 9/2/2010 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			9/3/10 21:01	DJB	B
1,2-Dibromoethane	ND		ug/L	0.021	EPA 504.1	9/8/10	JLH	9/10/10 02:14	CJW	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			9/3/10 21:01	DJB	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			9/3/10 21:01	DJB	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			9/3/10 21:01	DJB	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			9/3/10 21:01	DJB	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			9/3/10 21:01	DJB	B
Toluene	ND		ug/L	1.0	SW846 8260B			9/3/10 21:01	DJB	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B			9/3/10 21:01	DJB	B
1,2,4-Trimethylbenzene	1.3		ug/L	1.0	SW846 8260B			9/3/10 21:01	DJB	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			9/3/10 21:01	DJB	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	94.2		%	70-130	EPA 504.1	9/8/10	JLH	9/10/10 02:14	CJW	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	86.6		%	62-133	SW846 8260B			9/3/10 21:01	DJB	B
4-Bromofluorobenzene (S)	87.4		%	79-114	SW846 8260B			9/3/10 21:01	DJB	B
Dibromofluoromethane (S)	89.5		%	78-116	SW846 8260B			9/3/10 21:01	DJB	B
Toluene-d8 (S)	93.7		%	76-127	SW846 8260B			9/3/10 21:01	DJB	B
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0040	SW846 6020A	9/6/10	BLB	9/10/10 06:25	BLB	E1

**Sample Comments:**

One or more internal standards for the metals analysis were recovered at <70% due to sample matrix interference. The sample was diluted until the internal standard was within the acceptable range. The detection limits were raised.

*Anna G Milliken*  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9863628 Liberty Oil #38

Lab ID: 9863628003

Date Collected: 9/1/2010 11:45

Matrix: Ground Water

Sample ID: MW-3

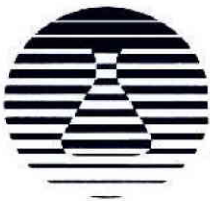
Date Received: 9/2/2010 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	18.6		ug/L	1.0	SW846 8260B			9/7/10 05:58	MES	B
1,2-Dibromoethane	ND		ug/L	0.021	EPA 504.1	9/8/10	JLH	9/10/10 03:24	CJW	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			9/7/10 05:58	MES	B
Ethylbenzene	2.1		ug/L	1.0	SW846 8260B			9/7/10 05:58	MES	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			9/7/10 05:58	MES	B
Methyl t-Butyl Ether	18.4		ug/L	1.0	SW846 8260B			9/7/10 05:58	MES	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			9/7/10 05:58	MES	B
Toluene	5.7		ug/L	1.0	SW846 8260B			9/7/10 05:58	MES	B
Total Xylenes	26.9		ug/L	3.0	SW846 8260B			9/7/10 05:58	MES	B
1,2,4-Trimethylbenzene	10.8		ug/L	1.0	SW846 8260B			9/7/10 05:58	MES	B
1,3,5-Trimethylbenzene	3.8		ug/L	1.0	SW846 8260B			9/7/10 05:58	MES	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	110		%	70-130	EPA 504.1	9/8/10	JLH	9/10/10 03:24	CJW	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	92.3		%	62-133	SW846 8260B			9/7/10 05:58	MES	B
4-Bromofluorobenzene (S)	86.9		%	79-114	SW846 8260B			9/7/10 05:58	MES	B
Dibromofluoromethane (S)	95		%	78-116	SW846 8260B			9/7/10 05:58	MES	B
Toluene-d8 (S)	97.6		%	76-127	SW846 8260B			9/7/10 05:58	MES	B
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	9/6/10	BLB	9/7/10 06:52	BLB	E1

**Sample Comments:**

The sample analyzed for the volatiles analysis contained headspace, which was introduced during the primary run. The method requires that the samples not have headspace in order to prevent the loss of VOC's.

*Anna G Milliken*  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9863628 Liberty Oil #38

Lab ID: 9863628004

Date Collected: 9/1/2010 10:10

Matrix: Ground Water

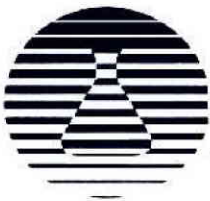
Sample ID: MW-5

Date Received: 9/2/2010 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			9/7/10 08:42	MES	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	9/8/10	JLH	9/10/10 03:59	CJW	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			9/7/10 08:42	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			9/7/10 08:42	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			9/7/10 08:42	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			9/7/10 08:42	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			9/7/10 08:42	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B			9/7/10 08:42	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			9/7/10 08:42	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			9/7/10 08:42	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			9/7/10 08:42	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	91.4		%	70-130	EPA 504.1	9/8/10	JLH	9/10/10 03:59	CJW	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	92.4		%	62-133	SW846 8260B			9/7/10 08:42	MES	A
4-Bromofluorobenzene (S)	92.4		%	79-114	SW846 8260B			9/7/10 08:42	MES	A
Dibromofluoromethane (S)	94.1		%	78-116	SW846 8260B			9/7/10 08:42	MES	A
Toluene-d8 (S)	101		%	76-127	SW846 8260B			9/7/10 08:42	MES	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	9/6/10	BLB	9/7/10 06:54	BLB	E1

**Sample Comments:**

  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

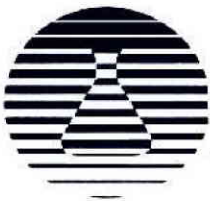
Workorder: 9863628 Liberty Oil #38

Lab ID: 9863628005 Date Collected: 9/1/2010 09:50 Matrix: Ground Water  
Sample ID: MW-6 Date Received: 9/2/2010 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			9/9/10 07:55	MES	B
1,2-Dibromoethane	ND		ug/L	0.021	EPA 504.1	9/8/10	JLH	9/10/10 05:07	CJW	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			9/9/10 07:55	MES	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			9/9/10 07:55	MES	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			9/9/10 07:55	MES	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			9/9/10 07:55	MES	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			9/9/10 07:55	MES	B
Toluene	ND		ug/L	1.0	SW846 8260B			9/9/10 07:55	MES	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B			9/9/10 07:55	MES	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			9/9/10 07:55	MES	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			9/9/10 07:55	MES	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	98		%	70-130	EPA 504.1	9/8/10	JLH	9/10/10 05:07	CJW	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	106		%	62-133	SW846 8260B			9/9/10 07:55	MES	B
4-Bromofluorobenzene (S)	80.4		%	79-114	SW846 8260B			9/9/10 07:55	MES	B
Dibromofluoromethane (S)	88.5		%	78-116	SW846 8260B			9/9/10 07:55	MES	B
Toluene-d8 (S)	107		%	76-127	SW846 8260B			9/9/10 07:55	MES	B
<b>METALS</b>										
Lead, Dissolved	0.065		mg/L	0.0020	SW846 6020A	9/6/10	BLB	9/7/10 06:56	BLB	E1

**Sample Comments:**

  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9863628 Liberty Oil #38

Lab ID: 9863628006

Date Collected: 9/1/2010 12:12

Matrix: Ground Water

Sample ID: MW-7

Date Received: 9/2/2010 20:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	597		ug/L	5.0	SW846 8260B			9/9/10 11:50	MES	B
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	9/8/10	JLH	9/10/10 05:42	CJW	C
1,2-Dichloroethane	ND		ug/L	5.0	SW846 8260B			9/9/10 11:50	MES	B
Ethylbenzene	257		ug/L	5.0	SW846 8260B			9/9/10 11:50	MES	B
Isopropylbenzene	15.8		ug/L	5.0	SW846 8260B			9/9/10 11:50	MES	B
Methyl t-Butyl Ether	348		ug/L	5.0	SW846 8260B			9/9/10 11:50	MES	B
Naphthalene	39.6		ug/L	10.0	SW846 8260B			9/9/10 11:50	MES	B
Toluene	133		ug/L	5.0	SW846 8260B			9/9/10 11:50	MES	B
Total Xylenes	242		ug/L	15.0	SW846 8260B			9/9/10 11:50	MES	B
1,2,4-Trimethylbenzene	83.0		ug/L	5.0	SW846 8260B			9/9/10 11:50	MES	B
1,3,5-Trimethylbenzene	22.6		ug/L	5.0	SW846 8260B			9/9/10 11:50	MES	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	91		%	70-130	EPA 504.1	9/8/10	JLH	9/10/10 05:42	CJW	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	103		%	62-133	SW846 8260B			9/9/10 11:50	MES	B
4-Bromofluorobenzene (S)	79.7		%	79-114	SW846 8260B			9/9/10 11:50	MES	B
Dibromofluoromethane (S)	90		%	78-116	SW846 8260B			9/9/10 11:50	MES	B
Toluene-d8 (S)	105		%	76-127	SW846 8260B			9/9/10 11:50	MES	B
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	9/6/10	BLB	9/7/10 07:04	BLB	E1

**Sample Comments:**

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

  
Anna G Milliken  
Laboratory Manager



**Analytical Laboratory Services, Inc.**  
Environmental • Industrial Hygiene • Field Services

34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**

Page 1 of 1

Courier: \_\_\_\_\_

Tracking #: \_\_\_\_\_



**ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/SAMPLER. INSTRUCTIONS ON THE BACK.**

Co. Name: CENTER BINT TANK SERVICES  
Contact (Report #): SV/PAT Phone: 610.385.4777  
Address: 536 C. BEN FRANKLIN HWY  
DOUGLASSVILLE, PA 19518

Container Type	CG	CG	PL
Container Size	400ml	150ml	250ml
Preservative	HCl		HNO3

Performed In: 10/3/10  
Cooler Temp: \_\_\_\_\_  
Therm. ID: 10132224  
No. of Coolers: \_\_\_\_\_  
Notes: \_\_\_\_\_

Bill to (if different than Report to): SAME PO#: \_\_\_\_\_

Project Name#: LIBERTY OIL #38 (09-12-492) ALSI Quote #: \_\_\_\_\_

TAT:  Normal-Standard TAT is 10-12 business days 5 DAY TAT (Date Required):  
 Rush-Subject to ALSI approval and surcharges. Approved By: \_\_\_\_\_

Email?  SVR@CENTERBINTANK.COM

Fax?  Y No: \_\_\_\_\_

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	Matrix		Enter Number of Containers Per Analysis			Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
				Oil	Water	2	2	1					
1 MW-1		9/10	1042	Oil	Water	2	2	1	Y	Y	Y	Y	Y
2 MW-2			1109			2	2	1	Y	Y	Y	Y	Y
3 MW-3			1145			2	2	1	Y	Y	Y	Y	Y
4 MW-5			1200			2	2	1	Y	Y	Y	Y	Y
5 MW-6			0720			2	2	1	Y	Y	Y	Y	Y
6 MW-7			1212			2	2	1	Y	Y	Y	Y	Y
7													
8													

PA-1ST NEW STANDARDS FOR LEAKED UNLIDED CARTRIDGE

SAMPLED BY (Please Print): \_\_\_\_\_ LOGGED BY (signature): \_\_\_\_\_ 9/3/10 8446

Delivered By	Company Name	Date	Time	Received By	Company Name	Date	Time
<u>[Signature]</u>		9-2	1546	<u>[Signature]</u>		9-2	1546
<u>[Signature]</u>		9-2	1800	<u>[Signature]</u>		9-2	1800
<u>[Signature]</u>		9-2-10	1800	<u>[Signature]</u>		9-2	2000

Standard  
 CLP-like  
 NJ-Reduced  
 NJ-Full  
 If yes, format type: Other: \_\_\_\_\_

SOWA Forms?  MD  NJ  NY  PA

State Samples Collected In?  Enter PWSID No: \_\_\_\_\_

Data Deliverables:  If yes, format type: Other: \_\_\_\_\_

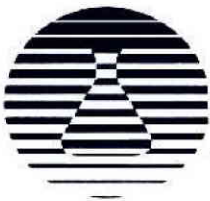
EPC:  DOD Criteria Required? \_\_\_\_\_

**ALSI FIELD SERVICES**

Pickup  
 Labor  
 Composite Sampling  
 Rental Equipment  
 Other: \_\_\_\_\_

\* G=Grab; C=Composite \*\*Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater  
 \*\*\*Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, Box, etc. Preservative: HCl, HNO3, NaOH, etc.

**ANALYTICAL LABORATORY SERVICES, INC.**  
 www.analyticallab.com  
 NELAP Accredited PA 22-293 NJ PA010  
 34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430  
 ACCREDITED IN ACCORDANCE WITH **nelap**



## Certificate of Analysis

Project Name:	Liberty Oil #38	Workorder:	9878997
Purchase Order:		Workorder ID:	Liberty Oil #38

JV  
Center Point Tank Services

December 13, 2010

Dear ,

Enclosed are the analytical results for samples received by the laboratory on Friday, December 03, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at [www.analyticallab.com](http://www.analyticallab.com) for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

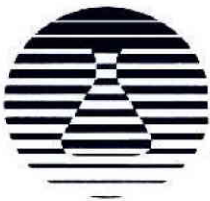
NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

CC: Ms. Rachel Burkart, Mr. Pat Crawford

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

  
Anna G Milliken  
Laboratory Manager



**SAMPLE SUMMARY**

Workorder: 9878997 Liberty Oil #38

Discard Date: 12/27/2010

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9878997001	MW-1	Ground Water	12/2/10 09:41	12/3/10 19:38	Customer
9878997002	MW-2	Ground Water	12/2/10 10:10	12/3/10 19:38	Customer
9878997003	MW-3	Ground Water	12/2/10 10:36	12/3/10 19:38	Customer
9878997004	MW-5	Ground Water	12/2/10 09:18	12/3/10 19:38	Customer
9878997005	MW-6	Ground Water	12/2/10 09:00	12/3/10 19:38	Customer
9878997006	MW-7	Ground Water	12/2/10 11:17	12/3/10 19:38	Customer
9878997007	MW-8	Ground Water	12/2/10 11:37	12/3/10 19:38	Customer

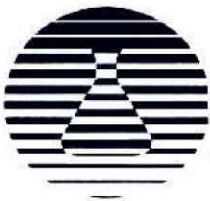
**Workorder Comments:**

**Notes**

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

**Standard Acronyms/Flags**

- J, B Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
- U Indicates that the analyte was Not Detected (ND)
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected - indicates that the analyte was Not Detected at the RDL
- Cntr Analysis was performed using this container
- RegLmt Regulatory Limit
- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- %Rec Percent Recovery
- RPD Relative Percent Difference



**ANALYTICAL RESULTS**

Workorder: 9878997 Liberty Oil #38

Lab ID: 9878997001

Date Collected: 12/2/2010 09:41

Matrix: Ground Water

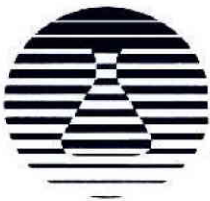
Sample ID: MW-1

Date Received: 12/3/2010 19:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			12/6/10 09:16	MES	A
1,2-Dibromoethane	ND		ug/L	0.021	EPA 504.1	12/6/10	JLH	12/6/10 22:29	CJW	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			12/6/10 09:16	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			12/6/10 09:16	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/6/10 09:16	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			12/6/10 09:16	MES	A
Naphthalene	ND	1	ug/L	2.0	SW846 8260B			12/6/10 09:16	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/6/10 09:16	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/6/10 09:16	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/6/10 09:16	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/6/10 09:16	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	90.6		%	70-130	EPA 504.1	12/6/10	JLH	12/6/10 22:29	CJW	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	118		%	62-133	SW846 8260B			12/6/10 09:16	MES	A
4-Bromofluorobenzene (S)	88.1		%	79-114	SW846 8260B			12/6/10 09:16	MES	A
Dibromofluoromethane (S)	119	2	%	78-116	SW846 8260B			12/6/10 09:16	MES	A
Toluene-d8 (S)	110		%	76-127	SW846 8260B			12/6/10 09:16	MES	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	12/8/10	BLB	12/13/10 08:53	BLB	D1

**Sample Comments:**

  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9878997 Liberty Oil #38

Lab ID: 9878997002

Date Collected: 12/2/2010 10:10

Matrix: Ground Water

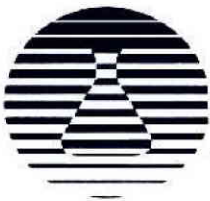
Sample ID: MW-2

Date Received: 12/3/2010 19:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			12/6/10 09:49	MES	A
1,2-Dibromoethane	ND		ug/L	0.021	EPA 504.1	12/6/10	JLH	12/6/10 23:09	CJW	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			12/6/10 09:49	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			12/6/10 09:49	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/6/10 09:49	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			12/6/10 09:49	MES	A
Naphthalene	ND	1	ug/L	2.0	SW846 8260B			12/6/10 09:49	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/6/10 09:49	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/6/10 09:49	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/6/10 09:49	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/6/10 09:49	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	85.5		%	70-130	EPA 504.1	12/6/10	JLH	12/6/10 23:09	CJW	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	109		%	62-133	SW846 8260B			12/6/10 09:49	MES	A
4-Bromofluorobenzene (S)	89.3		%	79-114	SW846 8260B			12/6/10 09:49	MES	A
Dibromofluoromethane (S)	115		%	78-116	SW846 8260B			12/6/10 09:49	MES	A
Toluene-d8 (S)	110		%	76-127	SW846 8260B			12/6/10 09:49	MES	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	12/8/10	BLB	12/13/10 09:03	BLB	D1

**Sample Comments:**

  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9878997 Liberty Oil #38

Lab ID: 9878997003

Date Collected: 12/2/2010 10:36

Matrix: Ground Water

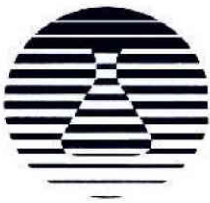
Sample ID: MW-3

Date Received: 12/3/2010 19:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	101		ug/L	1.0	SW846 8260B			12/6/10 10:23	MES	A
1,2-Dibromoethane	ND		ug/L	0.021	EPA 504.1	12/6/10	JLH	12/6/10 23:29	CJW	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			12/6/10 10:23	MES	A
Ethylbenzene	25.6		ug/L	1.0	SW846 8260B			12/6/10 10:23	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/6/10 10:23	MES	A
Methyl t-Butyl Ether	37.6		ug/L	1.0	SW846 8260B			12/6/10 10:23	MES	A
Naphthalene	ND	1	ug/L	2.0	SW846 8260B			12/6/10 10:23	MES	A
Toluene	35.0		ug/L	1.0	SW846 8260B			12/6/10 10:23	MES	A
Total Xylenes	135		ug/L	3.0	SW846 8260B			12/6/10 10:23	MES	A
1,2,4-Trimethylbenzene	26.6		ug/L	1.0	SW846 8260B			12/6/10 10:23	MES	A
1,3,5-Trimethylbenzene	18.1		ug/L	1.0	SW846 8260B			12/6/10 10:23	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	84.2		%	70-130	EPA 504.1	12/6/10	JLH	12/6/10 23:29	CJW	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	116		%	62-133	SW846 8260B			12/6/10 10:23	MES	A
4-Bromofluorobenzene (S)	92.3		%	79-114	SW846 8260B			12/6/10 10:23	MES	A
Dibromofluoromethane (S)	115		%	78-116	SW846 8260B			12/6/10 10:23	MES	A
Toluene-d8 (S)	112		%	76-127	SW846 8260B			12/6/10 10:23	MES	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	12/8/10	BLB	12/13/10 09:08	BLB	D1

**Sample Comments:**

  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9878997 Liberty Oil #38

Lab ID: 9878997004

Date Collected: 12/2/2010 09:18

Matrix: Ground Water

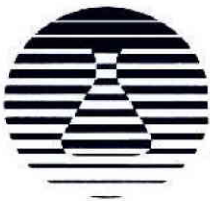
Sample ID: MW-5

Date Received: 12/3/2010 19:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			12/6/10 10:56	MES	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	12/6/10	JLH	12/6/10 23:49	CJW	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			12/6/10 10:56	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			12/6/10 10:56	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/6/10 10:56	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			12/6/10 10:56	MES	A
Naphthalene	ND	1	ug/L	2.0	SW846 8260B			12/6/10 10:56	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/6/10 10:56	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/6/10 10:56	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/6/10 10:56	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/6/10 10:56	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	90		%	70-130	EPA 504.1	12/6/10	JLH	12/6/10 23:49	CJW	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	108		%	62-133	SW846 8260B			12/6/10 10:56	MES	A
4-Bromofluorobenzene (S)	97.1		%	79-114	SW846 8260B			12/6/10 10:56	MES	A
Dibromofluoromethane (S)	113		%	78-116	SW846 8260B			12/6/10 10:56	MES	A
Toluene-d8 (S)	110		%	76-127	SW846 8260B			12/6/10 10:56	MES	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	12/8/10	BLB	12/13/10 09:12	BLB	D1

**Sample Comments:**

  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9878997 Liberty Oil #38

Lab ID: 9878997005

Date Collected: 12/2/2010 09:00

Matrix: Ground Water

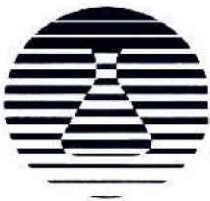
Sample ID: MW-6

Date Received: 12/3/2010 19:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			12/6/10 11:30	MES	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	12/6/10	JLH	12/7/10 00:09	CJW	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			12/6/10 11:30	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			12/6/10 11:30	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			12/6/10 11:30	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			12/6/10 11:30	MES	A
Naphthalene	ND	1	ug/L	2.0	SW846 8260B			12/6/10 11:30	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B			12/6/10 11:30	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			12/6/10 11:30	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/6/10 11:30	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			12/6/10 11:30	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	93.1		%	70-130	EPA 504.1	12/6/10	JLH	12/7/10 00:09	CJW	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	111		%	62-133	SW846 8260B			12/6/10 11:30	MES	A
4-Bromofluorobenzene (S)	91.8		%	79-114	SW846 8260B			12/6/10 11:30	MES	A
Dibromofluoromethane (S)	109		%	78-116	SW846 8260B			12/6/10 11:30	MES	A
Toluene-d8 (S)	115		%	76-127	SW846 8260B			12/6/10 11:30	MES	A
<b>METALS</b>										
Lead, Dissolved	0.0025		mg/L	0.0020	SW846 6020A	12/8/10	BLB	12/13/10 09:17	BLB	D1

**Sample Comments:**

  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9878997 Liberty Oil #38

Lab ID: 9878997006

Date Collected: 12/2/2010 11:17

Matrix: Ground Water

Sample ID: MW-7

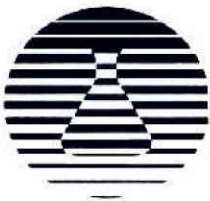
Date Received: 12/3/2010 19:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	706		ug/L	5.0	SW846 8260B			12/6/10 12:04	MES	A
1,2-Dibromoethane	ND		ug/L	0.021	EPA 504.1	12/6/10	JLH	12/7/10 00:29	CJW	C
1,2-Dichloroethane	ND		ug/L	5.0	SW846 8260B			12/6/10 12:04	MES	A
Ethylbenzene	406		ug/L	5.0	SW846 8260B			12/6/10 12:04	MES	A
Isopropylbenzene	15.5		ug/L	5.0	SW846 8260B			12/6/10 12:04	MES	A
Methyl t-Butyl Ether	274		ug/L	5.0	SW846 8260B			12/6/10 12:04	MES	A
Naphthalene	41.7	1	ug/L	10.0	SW846 8260B			12/6/10 12:04	MES	A
Toluene	233		ug/L	5.0	SW846 8260B			12/6/10 12:04	MES	A
Total Xylenes	154		ug/L	15.0	SW846 8260B			12/6/10 12:04	MES	A
1,2,4-Trimethylbenzene	77.5		ug/L	5.0	SW846 8260B			12/6/10 12:04	MES	A
1,3,5-Trimethylbenzene	22.1		ug/L	5.0	SW846 8260B			12/6/10 12:04	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	87.7		%	70-130	EPA 504.1	12/6/10	JLH	12/7/10 00:29	CJW	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	106		%	62-133	SW846 8260B			12/6/10 12:04	MES	A
4-Bromofluorobenzene (S)	93.7		%	79-114	SW846 8260B			12/6/10 12:04	MES	A
Dibromofluoromethane (S)	110		%	78-116	SW846 8260B			12/6/10 12:04	MES	A
Toluene-d8 (S)	110		%	76-127	SW846 8260B			12/6/10 12:04	MES	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	12/8/10	BLB	12/13/10 09:37	BLB	D1

**Sample Comments:**

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS**

Workorder: 9878997 Liberty Oil #38

Lab ID: 9878997007

Date Collected: 12/2/2010 11:37

Matrix: Ground Water

Sample ID: MW-8

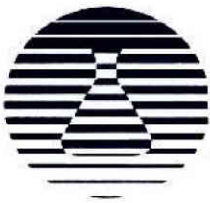
Date Received: 12/3/2010 19:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	198		ug/L	5.0	SW846 8260B			12/6/10 12:38	MES	A
1,2-Dibromoethane	0.090		ug/L	0.021	EPA 504.1	12/6/10	JLH	12/7/10 00:49	CJW	C
1,2-Dichloroethane	ND		ug/L	5.0	SW846 8260B			12/6/10 12:38	MES	A
Ethylbenzene	147		ug/L	5.0	SW846 8260B			12/6/10 12:38	MES	A
Isopropylbenzene	5.2		ug/L	5.0	SW846 8260B			12/6/10 12:38	MES	A
Methyl t-Butyl Ether	8.0		ug/L	5.0	SW846 8260B			12/6/10 12:38	MES	A
Naphthalene	19.2	1	ug/L	10.0	SW846 8260B			12/6/10 12:38	MES	A
Toluene	623		ug/L	5.0	SW846 8260B			12/6/10 12:38	MES	A
Total Xylenes	730		ug/L	15.0	SW846 8260B			12/6/10 12:38	MES	A
1,2,4-Trimethylbenzene	180		ug/L	5.0	SW846 8260B			12/6/10 12:38	MES	A
1,3,5-Trimethylbenzene	46.4		ug/L	5.0	SW846 8260B			12/6/10 12:38	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	90.4		%	70-130	EPA 504.1	12/6/10	JLH	12/7/10 00:49	CJW	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62-133	SW846 8260B			12/6/10 12:38	MES	A
4-Bromofluorobenzene (S)	98.4		%	79-114	SW846 8260B			12/6/10 12:38	MES	A
Dibromofluoromethane (S)	111		%	78-116	SW846 8260B			12/6/10 12:38	MES	A
Toluene-d8 (S)	113		%	76-127	SW846 8260B			12/6/10 12:38	MES	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	12/8/10	BLB	12/13/10 09:42	BLB	D1

**Sample Comments:**

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

*Anna G Milliken*  
Anna G Milliken  
Laboratory Manager



**ANALYTICAL RESULTS QUALIFIERS\FLAGS**

Workorder: 9878997 Liberty Oil #38

---

**PARAMETER QUALIFIERS\FLAGS**

- [1] The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Naphthalene. The % Recovery was reported as 50.7 and the control limits were 56 to 134.
- [2] The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 119 and the control limits were 78 to 116. This result was reported at a dilution of 1.



# ANALYTICAL LABORATORY SERVICES, INC.

www.analyticallab.com

NELAP Accredited  
PA 22-293 NJ PA010



34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430



Page 1 of 1  
Courier: \_\_\_\_\_  
Tracking #: \_\_\_\_\_

**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**  
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/SAMPLER. INSTRUCTIONS ON THE BACK

**Analytical Laboratory Services, Inc.**  
Environmental • Industrial Hygiene • Field Services  
34 Dogwood Lane • Middletown, PA 17057 • 717-944-5541 • Fax: 717-944-1430

Co. Name: WATER TREATMENT SERVICES  
Contact (Name): SU PARVEE QADRI  
Address: 540 E. 70th Franklin Hwy  
Douglasville, GA 30135  
Phone: 678-585-4977  
PO#: \_\_\_\_\_

Project Name#: LEADY ON 5010R-12-4292 ALSI Quote #: \_\_\_\_\_  
TAT:  Normal-Standard TAT is 10-12 business days. 5 DAY TAT Date Required: \_\_\_\_\_  
 Rush-Subject to ALSI approval and surcharges. Approved By: \_\_\_\_\_  
Email?  Y  N SUBMITTABLE DATA  
Fax?  Y  N

Sample Description/Location (as it will appear on the lab report):  
1 MW-1  
2 MW-2  
3 MW-3  
4 MW-5  
5 MW-6  
6 MW-7  
7 MW-8  
8 \_\_\_\_\_

Sample Date: 12/14/10, 10/10, 10/26, 09/18, 05/00, 11/17, 11/21  
Military Time: \_\_\_\_\_  
COC Comments: \_\_\_\_\_

LOGGED BY (signature): \_\_\_\_\_  
REVIEWED BY (signature): Sharon Dutt  
Date: 12/13 1430, 12/13 1800, 12/13 1928  
Time: \_\_\_\_\_  
Received By/Company Name: \_\_\_\_\_  
Date: 12/13 1430, 12/13 1430, 12/13 1800, 12/13/10 1528  
Time: \_\_\_\_\_

ANALYSIS METHOD REQUESTED: \_\_\_\_\_  
Enter Number of Containers Per Analysis: \_\_\_\_\_

Receipt Information (Completed by, Date, Initial)  
Cooler Temp: 5°C  
Therm. ID: 10133729  
No. of Coolers: \_\_\_\_\_  
Notes: \_\_\_\_\_

Correct containers?  Y  N  
Correct sample volume?  Y  N  
Correct preservation?  Y  N  
Headspace/Volatiles?  Y  N  
Container in good condition?  Y  N  
COC Labels complete/accurate?  Y  N  
Received on ice?  Y  N  
(if present) Seals intact?  Y  N  
Custody seals Present?  Y  N  
Circle appropriate Y or N

ALSIS FIELD SERVICES  
Pickup  Labor  Composite Sampling  Rental Equipment  Other: \_\_\_\_\_  
SIWA State Samples Collected in? MD  NJ  NY  PA   
Standard  CLP-like  NA-Reduced  NA-Full   
If yes, format type: Other \_\_\_\_\_  
Data Deliverables: \_\_\_\_\_  
EODS: \_\_\_\_\_  
BOD Criteria Required? \_\_\_\_\_

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY  
\* G-Grab, C-Composite \*\*Matrix: AL-Air, DW-Drinking Water, GW-Groundwater, DL-Oil, CL-Other Liquid, SL-Sludge, SO-Soil, WP-Wipes, WW-Wastewater  
\*\*\*Container Type: AG-Amber Glass, CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 2oz., etc. Preservative: HCl, HNO3, NaOH, etc.  
Rev 607

March 11, 2011

JV  
Center Point Tank Services

## Certificate of Analysis

Project Name: <b>Liberty Oil #38</b>	Workorder: <b>9892879</b>
Purchase Order:	Workorder ID: <b>Liberty Oil #38</b>

Dear ,

Enclosed are the analytical results for samples received by the laboratory on Friday, March 04, 2011.

The ALS Environmental laboratory in Middletown, Pennsylvania (formerly Analytical Laboratory Services, Inc.) is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at [www.analyticallab.com](http://www.analyticallab.com) for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

CC: Ms. Rachel Burkart, Mr. Pat Crawford

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*



Anna G Milliken  
Technical Manager

### ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay  
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

### SAMPLE SUMMARY

Workorder: 9892879 Liberty Oil #38

Discard Date: 03/25/2011

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9892879001	MW-1	Ground Water	3/4/11 09:08	3/4/11 20:25	Customer
9892879002	MW-2	Ground Water	3/4/11 09:41	3/4/11 20:25	Customer
9892879003	MW-5	Ground Water	3/4/11 10:02	3/4/11 20:25	Customer
9892879004	MW-6	Ground Water	3/4/11 10:17	3/4/11 20:25	Customer
9892879005	MW-7	Ground Water	3/4/11 10:47	3/4/11 20:25	Customer
9892879006	MW-8	Ground Water	3/4/11 11:17	3/4/11 20:25	Customer

#### Workorder Comments:

#### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

#### Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

### ALS Environmental Laboratory Locations Across North America

**Canada:** Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay  
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

**ANALYTICAL RESULTS**

Workorder: 9892879 Liberty Oil #38

Lab ID: **9892879001**

Date Collected: 3/4/2011 09:08

Matrix: Ground Water

Sample ID: **MW-1**

Date Received: 3/4/2011 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			3/7/11 18:57	DJB	A
1,2-Dibromoethane	ND		ug/L	0.019	EPA 504.1	3/8/11	CJW	3/9/11 13:25	CJW	C1
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			3/7/11 18:57	DJB	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			3/7/11 18:57	DJB	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			3/7/11 18:57	DJB	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			3/7/11 18:57	DJB	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			3/7/11 18:57	DJB	A
Toluene	ND		ug/L	1.0	SW846 8260B			3/7/11 18:57	DJB	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			3/7/11 18:57	DJB	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			3/7/11 18:57	DJB	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			3/7/11 18:57	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	97.9		%	70-130	EPA 504.1	3/8/11	CJW	3/9/11 13:25	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	90.9		%	62-133	SW846 8260B			3/7/11 18:57	DJB	A
4-Bromofluorobenzene (S)	84.9		%	79-114	SW846 8260B			3/7/11 18:57	DJB	A
Dibromofluoromethane (S)	84.6		%	78-116	SW846 8260B			3/7/11 18:57	DJB	A
Toluene-d8 (S)	105		%	76-127	SW846 8260B			3/7/11 18:57	DJB	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	3/8/11	AJB	3/9/11 19:03	LAM	D1

**Sample Comments:**
  
Anna G Milliken  
Technical Manager

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**ANALYTICAL RESULTS**

Workorder: 9892879 Liberty Oil #38

Lab ID: **9892879002**

Date Collected: 3/4/2011 09:41

Matrix: Ground Water

Sample ID: **MW-2**

Date Received: 3/4/2011 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			3/7/11 19:29	DJB	A
1,2-Dibromoethane	ND		ug/L	0.019	EPA 504.1	3/8/11	CJW	3/9/11 13:46	CJW	C1
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			3/7/11 19:29	DJB	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			3/7/11 19:29	DJB	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			3/7/11 19:29	DJB	A
Methyl t-Butyl Ether	6.0		ug/L	1.0	SW846 8260B			3/7/11 19:29	DJB	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			3/7/11 19:29	DJB	A
Toluene	ND		ug/L	1.0	SW846 8260B			3/7/11 19:29	DJB	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			3/7/11 19:29	DJB	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			3/7/11 19:29	DJB	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			3/7/11 19:29	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	96.7		%	70-130	EPA 504.1	3/8/11	CJW	3/9/11 13:46	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	92.3		%	62-133	SW846 8260B			3/7/11 19:29	DJB	A
4-Bromofluorobenzene (S)	83.9		%	79-114	SW846 8260B			3/7/11 19:29	DJB	A
Dibromofluoromethane (S)	85.6		%	78-116	SW846 8260B			3/7/11 19:29	DJB	A
Toluene-d8 (S)	104		%	76-127	SW846 8260B			3/7/11 19:29	DJB	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	3/8/11	AJB	3/9/11 19:09	LAM	D1

**Sample Comments:**
  
Anna G Milliken  
Technical Manager

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**ANALYTICAL RESULTS**

Workorder: 9892879 Liberty Oil #38

Lab ID: **9892879003**

Date Collected: 3/4/2011 10:02

Matrix: Ground Water

Sample ID: **MW-5**

Date Received: 3/4/2011 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			3/7/11 20:02	DJB	A
1,2-Dibromoethane	ND		ug/L	0.019	EPA 504.1	3/8/11	CJW	3/9/11 14:07	CJW	C1
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			3/7/11 20:02	DJB	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			3/7/11 20:02	DJB	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			3/7/11 20:02	DJB	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			3/7/11 20:02	DJB	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			3/7/11 20:02	DJB	A
Toluene	ND		ug/L	1.0	SW846 8260B			3/7/11 20:02	DJB	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			3/7/11 20:02	DJB	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			3/7/11 20:02	DJB	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			3/7/11 20:02	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	102		%	70-130	EPA 504.1	3/8/11	CJW	3/9/11 14:07	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	90.2		%	62-133	SW846 8260B			3/7/11 20:02	DJB	A
4-Bromofluorobenzene (S)	83.7		%	79-114	SW846 8260B			3/7/11 20:02	DJB	A
Dibromofluoromethane (S)	84.4		%	78-116	SW846 8260B			3/7/11 20:02	DJB	A
Toluene-d8 (S)	104		%	76-127	SW846 8260B			3/7/11 20:02	DJB	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	3/8/11	AJB	3/9/11 19:11	LAM	D1

**Sample Comments:**
  
Anna G Milliken  
Technical Manager

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**ANALYTICAL RESULTS**

Workorder: 9892879 Liberty Oil #38

Lab ID: **9892879004**

Date Collected: 3/4/2011 10:17

Matrix: Ground Water

Sample ID: **MW-6**

Date Received: 3/4/2011 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			3/7/11 20:35	DJB	A
1,2-Dibromoethane	ND		ug/L	0.019	EPA 504.1	3/8/11	CJW	3/9/11 14:28	CJW	C1
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			3/7/11 20:35	DJB	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			3/7/11 20:35	DJB	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			3/7/11 20:35	DJB	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			3/7/11 20:35	DJB	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			3/7/11 20:35	DJB	A
Toluene	ND		ug/L	1.0	SW846 8260B			3/7/11 20:35	DJB	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			3/7/11 20:35	DJB	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			3/7/11 20:35	DJB	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			3/7/11 20:35	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	108		%	70-130	EPA 504.1	3/8/11	CJW	3/9/11 14:28	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	91.4		%	62-133	SW846 8260B			3/7/11 20:35	DJB	A
4-Bromofluorobenzene (S)	85.2		%	79-114	SW846 8260B			3/7/11 20:35	DJB	A
Dibromofluoromethane (S)	83.7		%	78-116	SW846 8260B			3/7/11 20:35	DJB	A
Toluene-d8 (S)	104		%	76-127	SW846 8260B			3/7/11 20:35	DJB	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	3/8/11	AJB	3/9/11 19:14	LAM	D1

**Sample Comments:**
  
Anna G Milliken  
Technical Manager

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**ANALYTICAL RESULTS**

Workorder: 9892879 Liberty Oil #38

Lab ID: **9892879005**

Date Collected: 3/4/2011 10:47

Matrix: Ground Water

Sample ID: **MW-7**

Date Received: 3/4/2011 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	720		ug/L	5.0	SW846 8260B			3/7/11 21:07	DJB	A
1,2-Dibromoethane	ND		ug/L	0.019	EPA 504.1	3/8/11	CJW	3/9/11 14:49	CJW	C1
1,2-Dichloroethane	ND		ug/L	5.0	SW846 8260B			3/7/11 21:07	DJB	A
Ethylbenzene	295		ug/L	5.0	SW846 8260B			3/7/11 21:07	DJB	A
Isopropylbenzene	16.7		ug/L	5.0	SW846 8260B			3/7/11 21:07	DJB	A
Methyl t-Butyl Ether	350		ug/L	5.0	SW846 8260B			3/7/11 21:07	DJB	A
Naphthalene	29.9		ug/L	10.0	SW846 8260B			3/7/11 21:07	DJB	A
Toluene	374		ug/L	5.0	SW846 8260B			3/7/11 21:07	DJB	A
Total Xylenes	328		ug/L	15.0	SW846 8260B			3/7/11 21:07	DJB	A
1,2,4-Trimethylbenzene	71.5		ug/L	5.0	SW846 8260B			3/7/11 21:07	DJB	A
1,3,5-Trimethylbenzene	18.5		ug/L	5.0	SW846 8260B			3/7/11 21:07	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	89		%	70-130	EPA 504.1	3/8/11	CJW	3/9/11 14:49	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	88.8		%	62-133	SW846 8260B			3/7/11 21:07	DJB	A
4-Bromofluorobenzene (S)	87.8		%	79-114	SW846 8260B			3/7/11 21:07	DJB	A
Dibromofluoromethane (S)	83.8		%	78-116	SW846 8260B			3/7/11 21:07	DJB	A
Toluene-d8 (S)	104		%	76-127	SW846 8260B			3/7/11 21:07	DJB	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	3/8/11	AJB	3/9/11 19:17	LAM	D1

**Sample Comments:**

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

  
Anna G Milliken  
Technical Manager

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**ANALYTICAL RESULTS**

Workorder: 9892879 Liberty Oil #38

Lab ID: **9892879006**

Date Collected: 3/4/2011 11:17

Matrix: Ground Water

Sample ID: **MW-8**

Date Received: 3/4/2011 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	781		ug/L	5.0	SW846 8260B			3/7/11 21:39	DJB	A
1,2-Dibromoethane	0.10		ug/L	0.019	EPA 504.1	3/8/11	CJW	3/9/11 15:10	CJW	C1
1,2-Dichloroethane	ND		ug/L	5.0	SW846 8260B			3/7/11 21:39	DJB	A
Ethylbenzene	579		ug/L	5.0	SW846 8260B			3/7/11 21:39	DJB	A
Isopropylbenzene	45.6		ug/L	5.0	SW846 8260B			3/7/11 21:39	DJB	A
Methyl t-Butyl Ether	67.1		ug/L	5.0	SW846 8260B			3/7/11 21:39	DJB	A
Naphthalene	80.2		ug/L	10.0	SW846 8260B			3/7/11 21:39	DJB	A
Toluene	796		ug/L	5.0	SW846 8260B			3/7/11 21:39	DJB	A
Total Xylenes	2380		ug/L	15.0	SW846 8260B			3/7/11 21:39	DJB	A
1,2,4-Trimethylbenzene	841		ug/L	5.0	SW846 8260B			3/7/11 21:39	DJB	A
1,3,5-Trimethylbenzene	236		ug/L	5.0	SW846 8260B			3/7/11 21:39	DJB	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	70.1		%	70-130	EPA 504.1	3/8/11	CJW	3/9/11 15:10	CJW	C1
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	87.7		%	62-133	SW846 8260B			3/7/11 21:39	DJB	A
4-Bromofluorobenzene (S)	86.7		%	79-114	SW846 8260B			3/7/11 21:39	DJB	A
Dibromofluoromethane (S)	82		%	78-116	SW846 8260B			3/7/11 21:39	DJB	A
Toluene-d8 (S)	106		%	76-127	SW846 8260B			3/7/11 21:39	DJB	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	3/8/11	AJB	3/9/11 19:20	LAM	D1

**Sample Comments:**

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

  
Anna G Milliken  
Technical Manager

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**CHAIN OF CUSTODY / REQUEST FOR ANALYSIS**  
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1  
Counter: \_\_\_\_\_ Tracking #: \_\_\_\_\_

Co. Name: **CENTER POINT TANK SERVICES** Phone: 603-955-1809  
Contact (Report to): **Paul J. Sullivan**  
Address: **536 E. PAUL FRANKLIN BLVD  
DUNSMITHVILLE, PA 19518**

Bill to (if different than Report to): **SAME** PO#: \_\_\_\_\_

Project Name/ID: **08-12-489C** ALSI Quote #: \_\_\_\_\_  
Normal-Standard TAT is 10-12 business days 5 DAY TAT Date Required: \_\_\_\_\_  
Rush-Subject to ALSI approval and surcharges. Approved By: \_\_\_\_\_

Matrix: **WATER**

Sample Description/Location (as it will appear on the job report)	Sample Date	Military Time	COC Comments
1 MW-1	3/11/11	0818	CGM 2
2 MW-2	3/11/11	1002	CGM 2
3 MW-5	3/11/11	1017	CGM 2
4 MW-6	3/11/11	1017	CGM 2
5 MW-7	3/11/11	1114	CGM 2
6 MW-8	3/11/11	1114	CGM 2
7			
8			

LOGGED BY (Signature): \_\_\_\_\_ Date: 3/14/11  
REVIEWED BY (Signature): \_\_\_\_\_ Date: 3/14/11

Requisitioned By / Company Name	Date	Time	Received By / Company Name	Date	Time
[Signature]	3/14	1547	[Signature]	3/14	1547
[Signature]	3/14	1818	[Signature]	3/14	1818
[Signature]	3/14	2025	[Signature]	3/14	2025

Enter Number of Containers Per Analysis

Container No.	SWM Form #	Standard	GLP-like	NI-Reduced	NI-Full	Other
1		<input checked="" type="checkbox"/>				
2						
3						
4						
5						
6						
7						
8						

ANALYSES/METHOD REQUESTED

Notes: \_\_\_\_\_

Correct containers?  Y  N  
Correct sample volumes?  Y  N  
Correct preservation?  Y  N  
Headspace/Volatiles?  Y  N  
COC/Labels complete/accurate?  Y  N  
Received on ice?  Y  N  
Container in good condition?  Y  N

ALS FIELD SERVICES:  Pickup  Labor  Composites Sampling  Rental Equipment  Other: \_\_\_\_\_

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For Immediate Release

Analytical Laboratory Services, Inc.  
Announces Acquisition by ALS Laboratory Group

Middletown, Pennsylvania - Analytical Laboratory Services, Inc. (ALSI) of Middletown, Pennsylvania, announced that it has been acquired by ALS Laboratory Group, a unit of the publicly traded Australian corporation, Campbell Brothers Limited. ALSI is one of the twenty largest environmental testing laboratories in the United States, and is a full provider of superior lab services to municipal, industrial and engineering clients in the northeast region of the country.

ALSI President Michael Farlling commented on the acquisition. "We are very pleased to announce that we are joining ALS Laboratory Group, as a key component of their platform for expansion and growth in the northeastern United States, and we look forward to continuing to provide our customers with the same level of superior and dependable services that they have come to expect from ALSI."

"After consistently growing our business over the past twenty years, we are now excited to join the expanding ALS family," said Farlling. "ALS Laboratory Group's financial resources, operating systems, and strong reputation will help us continue to provide superior services, and to expand our services to a broader array of customers, and at a faster pace." All of the ALSI management team will remain in place under the new ownership, and Farlling commented that customers are not likely to see any changes in the day to day operations of the laboratory.

Raj Naran, ALS Environmental, Vice President - Europe and North America, states: "The expertise, reputation and service excellence that ALSI has developed compliments and broadens our existing USA based business. In the future, we plan to further expand our market reach in the USA by providing clients with access to the combined services of ALSI and ALS in a larger number of locations and a broader base of capabilities."

#### About ALS Laboratory Group

ALS Laboratory Group is the U.S. laboratory services group of Australian Laboratory Services, a unit of Campbell Brothers Limited, and by most measures, the largest environmental testing firm in the world. With extensive environmental, mineral and other analytical service businesses spanning the globe, the ALS Group overall has revenues approaching \$750 million (U.S.) and is the most rapidly growing environmental testing firm in North America.

For more information please contact Mike Farlling, President of ALSI at 717-702-2240 or visit us at [www.analyticallab.com](http://www.analyticallab.com).

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May 17, 2011

JV  
Center Point Tank Services

## Certificate of Analysis

Project Name: <b>Liberty Oil #38</b>	Workorder: <b>9904190</b>
Purchase Order: <b>08-12-4292</b>	Workorder ID: <b>Liberty Oil #38</b>

Dear ,

Enclosed are the analytical results for samples received by the laboratory on Monday, May 09, 2011.

The ALS Environmental laboratory in Middletown, Pennsylvania (formerly Analytical Laboratory Services, Inc.) is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Technical Manager) at (717) 944-5541.

Please visit us at [www.analyticallab.com](http://www.analyticallab.com) for a listing of ALS' NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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CC: Ms. Rachel Burkart, Mr. Pat Crawford

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*



Anna G Milliken  
Technical Manager

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### SAMPLE SUMMARY

Workorder: 9904190 Liberty Oil #38

Discard Date: 05/31/2011

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9904190001	MW-1	Ground Water	5/6/11 10:41	5/9/11 20:23	Customer
9904190002	MW-2	Ground Water	5/6/11 11:01	5/9/11 20:23	Customer
9904190003	MW-5	Ground Water	5/6/11 11:20	5/9/11 20:23	Customer
9904190004	MW-6	Ground Water	5/6/11 09:20	5/9/11 20:23	Customer
9904190005	MW-8	Ground Water	5/6/11 11:30	5/9/11 20:23	Customer

#### Workorder Comments:

#### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

#### Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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**ANALYTICAL RESULTS**

Workorder: 9904190 Liberty Oil #38

Lab ID: **9904190001**

Date Collected: 5/6/2011 10:41

Matrix: Ground Water

Sample ID: **MW-1**

Date Received: 5/9/2011 20:23

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			5/10/11 10:44	MES	A
1,2-Dibromoethane	ND		ug/L	0.021	EPA 504.1	5/12/11	JLH	5/14/11 09:02	CJW	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			5/10/11 10:44	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			5/10/11 10:44	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			5/10/11 10:44	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			5/10/11 10:44	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			5/10/11 10:44	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B			5/10/11 10:44	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			5/10/11 10:44	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			5/10/11 10:44	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			5/10/11 10:44	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	110		%	70-130	EPA 504.1	5/12/11	JLH	5/14/11 09:02	CJW	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	95.7		%	62-133	SW846 8260B			5/10/11 10:44	MES	A
4-Bromofluorobenzene (S)	90.1		%	79-114	SW846 8260B			5/10/11 10:44	MES	A
Dibromofluoromethane (S)	93.2		%	78-116	SW846 8260B			5/10/11 10:44	MES	A
Toluene-d8 (S)	101		%	76-127	SW846 8260B			5/10/11 10:44	MES	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	5/12/11	AJB	5/13/11 10:20	AJB	E1

**Sample Comments:**
  
Anna G Milliken  
Technical Manager

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**ANALYTICAL RESULTS**

Workorder: 9904190 Liberty Oil #38

Lab ID: **9904190002**

Date Collected: 5/6/2011 11:01

Matrix: Ground Water

Sample ID: **MW-2**

Date Received: 5/9/2011 20:23

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			5/10/11 11:22	MES	A
1,2-Dibromoethane	ND		ug/L	0.021	EPA 504.1	5/12/11	JLH	5/14/11 09:24	CJW	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			5/10/11 11:22	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			5/10/11 11:22	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			5/10/11 11:22	MES	A
Methyl t-Butyl Ether	6.7		ug/L	1.0	SW846 8260B			5/10/11 11:22	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			5/10/11 11:22	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B			5/10/11 11:22	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			5/10/11 11:22	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			5/10/11 11:22	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			5/10/11 11:22	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	116		%	70-130	EPA 504.1	5/12/11	JLH	5/14/11 09:24	CJW	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	101		%	62-133	SW846 8260B			5/10/11 11:22	MES	A
4-Bromofluorobenzene (S)	92.5		%	79-114	SW846 8260B			5/10/11 11:22	MES	A
Dibromofluoromethane (S)	95.6		%	78-116	SW846 8260B			5/10/11 11:22	MES	A
Toluene-d8 (S)	102		%	76-127	SW846 8260B			5/10/11 11:22	MES	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	5/12/11	AJB	5/13/11 10:25	AJB	D1

**Sample Comments:**
  
Anna G Milliken  
Technical Manager

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**ANALYTICAL RESULTS**

Workorder: 9904190 Liberty Oil #38

Lab ID: **9904190003**

Date Collected: 5/6/2011 11:20

Matrix: Ground Water

Sample ID: **MW-5**

Date Received: 5/9/2011 20:23

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			5/10/11 11:51	MES	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	5/12/11	JLH	5/14/11 09:45	CJW	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			5/10/11 11:51	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			5/10/11 11:51	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			5/10/11 11:51	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			5/10/11 11:51	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			5/10/11 11:51	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B			5/10/11 11:51	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			5/10/11 11:51	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			5/10/11 11:51	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			5/10/11 11:51	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	88.9		%	70-130	EPA 504.1	5/12/11	JLH	5/14/11 09:45	CJW	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	95		%	62-133	SW846 8260B			5/10/11 11:51	MES	A
4-Bromofluorobenzene (S)	86.3		%	79-114	SW846 8260B			5/10/11 11:51	MES	A
Dibromofluoromethane (S)	94.3		%	78-116	SW846 8260B			5/10/11 11:51	MES	A
Toluene-d8 (S)	101		%	76-127	SW846 8260B			5/10/11 11:51	MES	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	5/12/11	AJB	5/13/11 10:29	AJB	D1

**Sample Comments:**
  
Anna G Milliken  
Technical Manager

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**ANALYTICAL RESULTS**

Workorder: 9904190 Liberty Oil #38

Lab ID: **9904190004**

Date Collected: 5/6/2011 09:20

Matrix: Ground Water

Sample ID: **MW-6**

Date Received: 5/9/2011 20:23

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	1.0	SW846 8260B			5/10/11 12:21	MES	A
1,2-Dibromoethane	ND		ug/L	0.020	EPA 504.1	5/12/11	JLH	5/14/11 10:07	CJW	C
1,2-Dichloroethane	ND		ug/L	1.0	SW846 8260B			5/10/11 12:21	MES	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			5/10/11 12:21	MES	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			5/10/11 12:21	MES	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			5/10/11 12:21	MES	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			5/10/11 12:21	MES	A
Toluene	ND		ug/L	1.0	SW846 8260B			5/10/11 12:21	MES	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			5/10/11 12:21	MES	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			5/10/11 12:21	MES	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			5/10/11 12:21	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	113		%	70-130	EPA 504.1	5/12/11	JLH	5/14/11 10:07	CJW	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	96.3		%	62-133	SW846 8260B			5/10/11 12:21	MES	A
4-Bromofluorobenzene (S)	93		%	79-114	SW846 8260B			5/10/11 12:21	MES	A
Dibromofluoromethane (S)	96.9		%	78-116	SW846 8260B			5/10/11 12:21	MES	A
Toluene-d8 (S)	101		%	76-127	SW846 8260B			5/10/11 12:21	MES	A
<b>METALS</b>										
Lead, Dissolved	0.0046		mg/L	0.0020	SW846 6020A	5/12/11	AJB	5/13/11 10:34	AJB	D1

**Sample Comments:**
  
Anna G Milliken  
Technical Manager

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**ANALYTICAL RESULTS**

Workorder: 9904190 Liberty Oil #38

Lab ID: **9904190005**

Date Collected: 5/6/2011 11:30

Matrix: Ground Water

Sample ID: **MW-8**

Date Received: 5/9/2011 20:23

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>VOLATILE ORGANICS</b>										
Benzene	674		ug/L	5.0	SW846 8260B			5/10/11 12:50	MES	A
1,2-Dibromoethane	0.035		ug/L	0.021	EPA 504.1	5/12/11	JLH	5/14/11 10:28	CJW	C
1,2-Dichloroethane	ND		ug/L	5.0	SW846 8260B			5/10/11 12:50	MES	A
Ethylbenzene	377		ug/L	5.0	SW846 8260B			5/10/11 12:50	MES	A
Isopropylbenzene	37.1		ug/L	5.0	SW846 8260B			5/10/11 12:50	MES	A
Methyl t-Butyl Ether	79.5		ug/L	5.0	SW846 8260B			5/10/11 12:50	MES	A
Naphthalene	65.9		ug/L	10.0	SW846 8260B			5/10/11 12:50	MES	A
Toluene	308		ug/L	5.0	SW846 8260B			5/10/11 12:50	MES	A
Total Xylenes	1240		ug/L	15.0	SW846 8260B			5/10/11 12:50	MES	A
1,2,4-Trimethylbenzene	539		ug/L	5.0	SW846 8260B			5/10/11 12:50	MES	A
1,3,5-Trimethylbenzene	160		ug/L	5.0	SW846 8260B			5/10/11 12:50	MES	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1-Chloro-2-Fluorobenzene (S)	123		%	70-130	EPA 504.1	5/12/11	JLH	5/14/11 10:28	CJW	C
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	95		%	62-133	SW846 8260B			5/10/11 12:50	MES	A
4-Bromofluorobenzene (S)	90.9		%	79-114	SW846 8260B			5/10/11 12:50	MES	A
Dibromofluoromethane (S)	92.9		%	78-116	SW846 8260B			5/10/11 12:50	MES	A
Toluene-d8 (S)	103		%	76-127	SW846 8260B			5/10/11 12:50	MES	A
<b>METALS</b>										
Lead, Dissolved	ND		mg/L	0.0020	SW846 6020A	5/12/11	AJB	5/13/11 10:39	AJB	D1

**Sample Comments:**

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

  
Anna G Milliken  
Technical Manager

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**CHAIN OF CUSTODY/  
REQUEST FOR ANALYSIS**  
ALL SHADED AREAS MUST BE COMPLETED BY THE  
CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1  
Courier: 7  
Tracking #: 990404190\*

Co. Name: Central Penn Tank Services  
Contact (Name): JV/PAT  
Address: 536 E. 3rd Franklin Hwy  
Douglasville PA 1978  
Phone: 610 345 4174

PO#: 5411

Project Name#: L12710 #85/09-12-4192 ALSI Quote #:  
TAT:  Normal-Standard TAT is 10-12 business days 5 DAT TNT Date Required:  
 Rush-Subject to ALSI approval and surcharges. Approved By:  
Email:  Y SJC@CENTRALPA.COM

Sample Description/Location  
(as I will appear on the lab report)

Sample No.	Sample Date	Military Time	COC Comments
1	5/4/11	104	G 60 2
2	5/6/11	110	G 60 2
3	5/6/11	1120	G 60 2
4	5/4/11	0920	G 60 2
5	5/6/11	1130	G 60 2
6			
7			
8			

LOGGED BY (Signature): John May DATE: 5/9/11 TIME: 0835  
REVIEWED BY (Signature): John May DATE: 5/9/11 TIME: 0835

Relinquished By / Company Name: John May Date: 5/9/11 Time: 0840  
Received By / Company Name: John May Date: 5/9/11 Time: 0840  
3 Central Penn Tank Services Date: 5/9/11 Time: 1830  
5 John May Date: 5/9/11 Time: 2023  
7 John May Date: 5/9/11 Time: 1830  
9 John May Date: 5/9/11 Time: 1830

Container Information (Completed by Client/Sampler)  
Container Type: CG CG PL  
Container Size: 100ml 100ml 250ml  
Preservative: None None None

ANALYSIS METHOD REQUESTED

Container in good condition?  Y  N  
CO Labels complete/accurate?  Y  N  
Received on ice?  Y  N  
(if present) Seals intact?  Y  N  
Custody seals Present?  Y  N  
Correct containers?  Y  N  
Correct sample volume?  Y  N  
Correct preservation?  Y  N  
Headspace/Volatiles?  Y  N

Circle appropriate Y or N.

State Samples Collected in?  PA  NY  NJ  MD  DE

Standard  CLP-All  CLP-Reduced  NI-Full  Other

SWA Form #s:  Yes  No

DOO Criteria Required?  Yes  No

EDS:  Yes  No

Notes: PA NOT LEAVED UNATTENDED OVERNIGHT

Therm ID: 1018827021  
Cooler Temp: 1°C  
No. of Coolers: 1

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# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica King Of Prussia  
1008 West Ninth Avenue  
King of Prussia, PA 19406  
Tel: 610.337.9992

TestAmerica Job ID: KUI0190  
Client Project/Site: NA  
Client Project Description: Liberty #38

For:  
CENTERPOINT TANK SERVICES, INC  
536 Benjamin Franklin Highway  
Douglassville, PA 19518

Attn: Pat Crawford



Authorized for release by:  
09/21/2011 02:42:27 PM

Oswaldo Burgos  
Project Manager  
ozzy.burgos@testamericainc.com

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**TotalAccess**

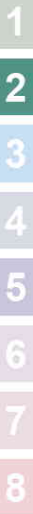
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*Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may 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.*



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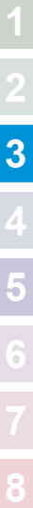
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# Sample Summary

Client: CENTERPOINT TANK SERVICES, INC  
Project/Site: NA

TestAmerica Job ID: KUI0190

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
KUI0190-01	MW - 1	Water	09/09/11 09:55	09/12/11 12:10
KUI0190-02	MW - 2	Water	09/09/11 10:17	09/12/11 12:10
KUI0190-03	MW - 4	Water	09/09/11 11:20	09/12/11 12:10
KUI0190-04	MW - 5	Water	09/09/11 09:27	09/12/11 12:10
KUI0190-05	MW - 6	Water	09/09/11 09:01	09/12/11 12:10
KUI0190-06	MW - 7	Water	09/09/11 12:12	09/12/11 12:10
KUI0190-07	MW - 8	Water	09/09/11 10:47	09/12/11 12:10



# Definitions/Glossary

Client: CENTERPOINT TANK SERVICES, INC  
Project/Site: NA

TestAmerica Job ID: KUI0190

## Qualifiers

### Volatiles

Qualifier	Qualifier Description
RL7	Sample required dilution due to high concentrations of target analyte.

### Metals

Qualifier	Qualifier Description
R4	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

## 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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
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)

# Client Sample Results

Client: CENTERPOINT TANK SERVICES, INC  
Project/Site: NA

TestAmerica Job ID: KUI0190

**Client Sample ID: MW - 1**

**Lab Sample ID: KUI0190-01**

Date Collected: 09/09/11 09:55

Matrix: Water

Date Received: 09/12/11 12:10

**Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/l		09/14/11 08:38	09/14/11 16:17	1.0
1,2-Dichloroethane	ND		1.0		ug/l		09/14/11 08:38	09/14/11 16:17	1.0
1,3,5-Trimethylbenzene	ND		2.0		ug/l		09/14/11 08:38	09/14/11 16:17	1.0
Benzene	ND		1.0		ug/l		09/14/11 08:38	09/14/11 16:17	1.0
Ethylbenzene	ND		2.0		ug/l		09/14/11 08:38	09/14/11 16:17	1.0
Isopropylbenzene	ND		2.0		ug/l		09/14/11 08:38	09/14/11 16:17	1.0
Methyl tert-butyl ether	ND		2.0		ug/l		09/14/11 08:38	09/14/11 16:17	1.0
Naphthalene	ND		8.0		ug/l		09/14/11 08:38	09/14/11 16:17	1.0
Toluene	ND		2.0		ug/l		09/14/11 08:38	09/14/11 16:17	1.0
Xylenes (total)	ND		6.0		ug/l		09/14/11 08:38	09/14/11 16:17	1.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	105		91 - 114	09/14/11 08:38	09/14/11 16:17	1.0
Dibromofluoromethane	105		91 - 114	09/14/11 08:38	09/14/11 16:17	1.0
1,2-Dichloroethane-d4	104		85 - 125	09/14/11 08:38	09/14/11 16:17	1.0
Toluene-d8	93.4		84 - 111	09/14/11 08:38	09/14/11 16:17	1.0
4-Bromofluorobenzene	92.6		86 - 120	09/14/11 08:38	09/14/11 16:17	1.0

**Method: EPA 8011 - EDB by EPA 8011**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.050		ug/l		09/14/11 00:00	09/19/11 14:20	1.0

**Method: EPA 200.8 - Dissolved Metals by EPA 200 Series Methods - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	R4	0.48		ug/l		09/16/11 07:38	09/16/11 15:40	1.0

**Client Sample ID: MW - 2**

**Lab Sample ID: KUI0190-02**

Date Collected: 09/09/11 10:17

Matrix: Water

Date Received: 09/12/11 12:10

**Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/l		09/14/11 08:38	09/14/11 16:48	1.0
1,2-Dichloroethane	ND		1.0		ug/l		09/14/11 08:38	09/14/11 16:48	1.0
1,3,5-Trimethylbenzene	ND		2.0		ug/l		09/14/11 08:38	09/14/11 16:48	1.0
Benzene	ND		1.0		ug/l		09/14/11 08:38	09/14/11 16:48	1.0
Ethylbenzene	ND		2.0		ug/l		09/14/11 08:38	09/14/11 16:48	1.0
Isopropylbenzene	ND		2.0		ug/l		09/14/11 08:38	09/14/11 16:48	1.0
Methyl tert-butyl ether	ND		2.0		ug/l		09/14/11 08:38	09/14/11 16:48	1.0
Naphthalene	ND		8.0		ug/l		09/14/11 08:38	09/14/11 16:48	1.0
Toluene	ND		2.0		ug/l		09/14/11 08:38	09/14/11 16:48	1.0
Xylenes (total)	ND		6.0		ug/l		09/14/11 08:38	09/14/11 16:48	1.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	104		91 - 114	09/14/11 08:38	09/14/11 16:48	1.0
Dibromofluoromethane	104		91 - 114	09/14/11 08:38	09/14/11 16:48	1.0
1,2-Dichloroethane-d4	104		85 - 125	09/14/11 08:38	09/14/11 16:48	1.0
Toluene-d8	93.8		84 - 111	09/14/11 08:38	09/14/11 16:48	1.0
4-Bromofluorobenzene	93.1		86 - 120	09/14/11 08:38	09/14/11 16:48	1.0

# Client Sample Results

Client: CENTERPOINT TANK SERVICES, INC  
Project/Site: NA

TestAmerica Job ID: KUI0190

## Client Sample ID: MW - 2

Date Collected: 09/09/11 10:17

Date Received: 09/12/11 12:10

## Lab Sample ID: KUI0190-02

Matrix: Water

### Method: EPA 8011 - EDB by EPA 8011

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.050		ug/l		09/14/11 00:00	09/19/11 14:40	1.0

### Method: EPA 200.8 - Dissolved Metals by EPA 200 Series Methods - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48		ug/l		09/16/11 07:38	09/16/11 15:55	1.0

## Client Sample ID: MW - 4

Date Collected: 09/09/11 11:20

Date Received: 09/12/11 12:10

## Lab Sample ID: KUI0190-03

Matrix: Water

### Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	380		2.0		ug/l		09/14/11 08:38	09/14/11 17:18	1.0
1,2-Dichloroethane	ND		1.0		ug/l		09/14/11 08:38	09/14/11 17:18	1.0
1,3,5-Trimethylbenzene	140		2.0		ug/l		09/14/11 08:38	09/14/11 17:18	1.0
Benzene	350		1.0		ug/l		09/14/11 08:38	09/14/11 17:18	1.0
Ethylbenzene	360		2.0		ug/l		09/14/11 08:38	09/14/11 17:18	1.0
Isopropylbenzene	27		2.0		ug/l		09/14/11 08:38	09/14/11 17:18	1.0
Methyl tert-butyl ether	40		2.0		ug/l		09/14/11 08:38	09/14/11 17:18	1.0
Naphthalene	68		8.0		ug/l		09/14/11 08:38	09/14/11 17:18	1.0
Toluene	200		2.0		ug/l		09/14/11 08:38	09/14/11 17:18	1.0
Xylenes (total)	480		6.0		ug/l		09/14/11 08:38	09/14/11 17:18	1.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	101		91 - 114	09/14/11 08:38	09/14/11 17:18	1.0
Dibromofluoromethane	101		91 - 114	09/14/11 08:38	09/14/11 17:18	1.0
1,2-Dichloroethane-d4	100		85 - 125	09/14/11 08:38	09/14/11 17:18	1.0
Toluene-d8	94.5		84 - 111	09/14/11 08:38	09/14/11 17:18	1.0
4-Bromofluorobenzene	94.2		86 - 120	09/14/11 08:38	09/14/11 17:18	1.0

### Method: EPA 8011 - EDB by EPA 8011

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.050		ug/l		09/14/11 00:00	09/19/11 14:59	1.0

### Method: EPA 200.8 - Dissolved Metals by EPA 200 Series Methods - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48		ug/l		09/16/11 07:38	09/16/11 16:09	1.0

## Client Sample ID: MW - 5

Date Collected: 09/09/11 09:27

Date Received: 09/12/11 12:10

## Lab Sample ID: KUI0190-04

Matrix: Water

### Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.1		2.0		ug/l		09/14/11 08:38	09/14/11 17:49	1.0
1,2-Dichloroethane	ND		1.0		ug/l		09/14/11 08:38	09/14/11 17:49	1.0
1,3,5-Trimethylbenzene	ND		2.0		ug/l		09/14/11 08:38	09/14/11 17:49	1.0
Benzene	ND		1.0		ug/l		09/14/11 08:38	09/14/11 17:49	1.0
Ethylbenzene	ND		2.0		ug/l		09/14/11 08:38	09/14/11 17:49	1.0

# Client Sample Results

Client: CENTERPOINT TANK SERVICES, INC  
Project/Site: NA

TestAmerica Job ID: KUI0190

**Client Sample ID: MW - 5**

**Lab Sample ID: KUI0190-04**

Date Collected: 09/09/11 09:27

Matrix: Water

Date Received: 09/12/11 12:10

**Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		2.0		ug/l		09/14/11 08:38	09/14/11 17:49	1.0
Methyl tert-butyl ether	ND		2.0		ug/l		09/14/11 08:38	09/14/11 17:49	1.0
Naphthalene	ND		8.0		ug/l		09/14/11 08:38	09/14/11 17:49	1.0
Toluene	ND		2.0		ug/l		09/14/11 08:38	09/14/11 17:49	1.0
Xylenes (total)	ND		6.0		ug/l		09/14/11 08:38	09/14/11 17:49	1.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	103		91 - 114	09/14/11 08:38	09/14/11 17:49	1.0
Dibromofluoromethane	103		91 - 114	09/14/11 08:38	09/14/11 17:49	1.0
1,2-Dichloroethane-d4	101		85 - 125	09/14/11 08:38	09/14/11 17:49	1.0
Toluene-d8	94.6		84 - 111	09/14/11 08:38	09/14/11 17:49	1.0
4-Bromofluorobenzene	93.1		86 - 120	09/14/11 08:38	09/14/11 17:49	1.0

**Method: EPA 8011 - EDB by EPA 8011**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.050		ug/l		09/14/11 00:00	09/19/11 15:18	1.0

**Method: EPA 200.8 - Dissolved Metals by EPA 200 Series Methods - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48		ug/l		09/16/11 07:38	09/16/11 16:14	1.0

**Client Sample ID: MW - 6**

**Lab Sample ID: KUI0190-05**

Date Collected: 09/09/11 09:01

Matrix: Water

Date Received: 09/12/11 12:10

**Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/l		09/14/11 08:38	09/14/11 18:19	1.0
1,2-Dichloroethane	ND		1.0		ug/l		09/14/11 08:38	09/14/11 18:19	1.0
1,3,5-Trimethylbenzene	ND		2.0		ug/l		09/14/11 08:38	09/14/11 18:19	1.0
Benzene	ND		1.0		ug/l		09/14/11 08:38	09/14/11 18:19	1.0
Ethylbenzene	ND		2.0		ug/l		09/14/11 08:38	09/14/11 18:19	1.0
Isopropylbenzene	ND		2.0		ug/l		09/14/11 08:38	09/14/11 18:19	1.0
Methyl tert-butyl ether	ND		2.0		ug/l		09/14/11 08:38	09/14/11 18:19	1.0
Naphthalene	ND		8.0		ug/l		09/14/11 08:38	09/14/11 18:19	1.0
Toluene	ND		2.0		ug/l		09/14/11 08:38	09/14/11 18:19	1.0
Xylenes (total)	ND		6.0		ug/l		09/14/11 08:38	09/14/11 18:19	1.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	104		91 - 114	09/14/11 08:38	09/14/11 18:19	1.0
Dibromofluoromethane	104		91 - 114	09/14/11 08:38	09/14/11 18:19	1.0
1,2-Dichloroethane-d4	102		85 - 125	09/14/11 08:38	09/14/11 18:19	1.0
Toluene-d8	94.2		84 - 111	09/14/11 08:38	09/14/11 18:19	1.0
4-Bromofluorobenzene	95.2		86 - 120	09/14/11 08:38	09/14/11 18:19	1.0

**Method: EPA 8011 - EDB by EPA 8011**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.050		ug/l		09/14/11 00:00	09/19/11 15:38	1.0

# Client Sample Results

Client: CENTERPOINT TANK SERVICES, INC  
Project/Site: NA

TestAmerica Job ID: KUI0190

## Client Sample ID: MW - 6

Date Collected: 09/09/11 09:01

Date Received: 09/12/11 12:10

## Lab Sample ID: KUI0190-05

Matrix: Water

### Method: EPA 200.8 - Dissolved Metals by EPA 200 Series Methods - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.4		0.48		ug/l		09/16/11 07:38	09/16/11 16:19	1.0

## Client Sample ID: MW - 7

Date Collected: 09/09/11 12:12

Date Received: 09/12/11 12:10

## Lab Sample ID: KUI0190-06

Matrix: Water

### Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0		ug/l		09/14/11 08:38	09/14/11 18:50	1.0
1,3,5-Trimethylbenzene	310		2.0		ug/l		09/14/11 08:38	09/14/11 18:50	1.0
Benzene	450		1.0		ug/l		09/14/11 08:38	09/14/11 18:50	1.0
Ethylbenzene	370		2.0		ug/l		09/14/11 08:38	09/14/11 18:50	1.0
Isopropylbenzene	61		2.0		ug/l		09/14/11 08:38	09/14/11 18:50	1.0
Methyl tert-butyl ether	140		2.0		ug/l		09/14/11 08:38	09/14/11 18:50	1.0
Naphthalene	200		8.0		ug/l		09/14/11 08:38	09/14/11 18:50	1.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	103		91 - 114	09/14/11 08:38	09/14/11 18:50	1.0
Dibromofluoromethane	103		91 - 114	09/14/11 08:38	09/14/11 18:50	1.0
1,2-Dichloroethane-d4	98.8		85 - 125	09/14/11 08:38	09/14/11 18:50	1.0
Toluene-d8	94.4		84 - 111	09/14/11 08:38	09/14/11 18:50	1.0
4-Bromofluorobenzene	95.9		86 - 120	09/14/11 08:38	09/14/11 18:50	1.0

### Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	840	RL7	20		ug/l		09/14/11 08:38	09/15/11 13:31	10
Toluene	470	RL7	20		ug/l		09/14/11 08:38	09/15/11 13:31	10
Xylenes (total)	1400	RL7	60		ug/l		09/14/11 08:38	09/15/11 13:31	10

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	103	RL7	91 - 114	09/14/11 08:38	09/15/11 13:31	10
1,2-Dichloroethane-d4	99.5	RL7	85 - 125	09/14/11 08:38	09/15/11 13:31	10
Toluene-d8	94.6	RL7	84 - 111	09/14/11 08:38	09/15/11 13:31	10
4-Bromofluorobenzene	95.2	RL7	86 - 120	09/14/11 08:38	09/15/11 13:31	10

### Method: EPA 8011 - EDB by EPA 8011

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.050		ug/l		09/14/11 00:00	09/19/11 15:57	1.0

### Method: EPA 200.8 - Dissolved Metals by EPA 200 Series Methods - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48		ug/l		09/16/11 07:38	09/16/11 16:24	1.0

# Client Sample Results

Client: CENTERPOINT TANK SERVICES, INC  
 Project/Site: NA

TestAmerica Job ID: KUI0190

**Client Sample ID: MW - 8**

**Lab Sample ID: KUI0190-07**

Date Collected: 09/09/11 10:47

Matrix: Water

Date Received: 09/12/11 12:10

**Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	220		2.0		ug/l		09/14/11 08:38	09/15/11 14:32	1.0
1,2-Dichloroethane	ND		1.0		ug/l		09/14/11 08:38	09/15/11 14:32	1.0
1,3,5-Trimethylbenzene	66		2.0		ug/l		09/14/11 08:38	09/15/11 14:32	1.0
Benzene	210		1.0		ug/l		09/14/11 08:38	09/15/11 14:32	1.0
Ethylbenzene	160		2.0		ug/l		09/14/11 08:38	09/15/11 14:32	1.0
Isopropylbenzene	19		2.0		ug/l		09/14/11 08:38	09/15/11 14:32	1.0
Methyl tert-butyl ether	39		2.0		ug/l		09/14/11 08:38	09/15/11 14:32	1.0
Naphthalene	39		8.0		ug/l		09/14/11 08:38	09/15/11 14:32	1.0
Toluene	42		2.0		ug/l		09/14/11 08:38	09/15/11 14:32	1.0
Xylenes (total)	460		6.0		ug/l		09/14/11 08:38	09/15/11 14:32	1.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	102		91 - 114	09/14/11 08:38	09/15/11 14:32	1.0
Dibromofluoromethane	102		91 - 114	09/14/11 08:38	09/15/11 14:32	1.0
1,2-Dichloroethane-d4	98.9		85 - 125	09/14/11 08:38	09/15/11 14:32	1.0
Toluene-d8	94.5		84 - 111	09/14/11 08:38	09/15/11 14:32	1.0
4-Bromofluorobenzene	95.1		86 - 120	09/14/11 08:38	09/15/11 14:32	1.0

**Method: EPA 8011 - EDB by EPA 8011**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.050		ug/l		09/14/11 00:00	09/19/11 16:16	1.0

**Method: EPA 200.8 - Dissolved Metals by EPA 200 Series Methods - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48		ug/l		09/16/11 07:38	09/16/11 16:29	1.0

# Lab Chronicle

Client: CENTERPOINT TANK SERVICES, INC  
Project/Site: NA

TestAmerica Job ID: KUI0190

## Client Sample ID: MW - 1

Lab Sample ID: KUI0190-01

Date Collected: 09/09/11 09:55

Matrix: Water

Date Received: 09/12/11 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B (P/T)		1.0	1110256_P	09/14/11 08:38	MSL	TAL KOP
Total	Analysis	EPA 8260B		1.0	1110256	09/14/11 16:17	CB	TAL KOP
Total	Prep	General Prep SVOC		1.0	1110245_P	09/14/11 00:00	JLE	TAL KOP
Total	Analysis	EPA 8011		1.0	1110245	09/19/11 14:20	MS	TAL KOP
Dissolved	Prep	EPA 200.8 Diss		1.0	1110331_P	09/16/11 07:38	RW	TAL KOP
Dissolved	Analysis	EPA 200.8		1.0	1110331	09/16/11 15:40	RW	TAL KOP

## Client Sample ID: MW - 2

Lab Sample ID: KUI0190-02

Date Collected: 09/09/11 10:17

Matrix: Water

Date Received: 09/12/11 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B (P/T)		1.0	1110256_P	09/14/11 08:38	MSL	TAL KOP
Total	Analysis	EPA 8260B		1.0	1110256	09/14/11 16:48	CB	TAL KOP
Total	Prep	General Prep SVOC		1.0	1110245_P	09/14/11 00:00	JLE	TAL KOP
Total	Analysis	EPA 8011		1.0	1110245	09/19/11 14:40	MS	TAL KOP
Dissolved	Prep	EPA 200.8 Diss		1.0	1110331_P	09/16/11 07:38	RW	TAL KOP
Dissolved	Analysis	EPA 200.8		1.0	1110331	09/16/11 15:55	RW	TAL KOP

## Client Sample ID: MW - 4

Lab Sample ID: KUI0190-03

Date Collected: 09/09/11 11:20

Matrix: Water

Date Received: 09/12/11 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B (P/T)		1.0	1110256_P	09/14/11 08:38	MSL	TAL KOP
Total	Analysis	EPA 8260B		1.0	1110256	09/14/11 17:18	CB	TAL KOP
Total	Prep	General Prep SVOC		1.0	1110245_P	09/14/11 00:00	JLE	TAL KOP
Total	Analysis	EPA 8011		1.0	1110245	09/19/11 14:59	MS	TAL KOP
Dissolved	Prep	EPA 200.8 Diss		1.0	1110331_P	09/16/11 07:38	RW	TAL KOP
Dissolved	Analysis	EPA 200.8		1.0	1110331	09/16/11 16:09	RW	TAL KOP

## Client Sample ID: MW - 5

Lab Sample ID: KUI0190-04

Date Collected: 09/09/11 09:27

Matrix: Water

Date Received: 09/12/11 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B (P/T)		1.0	1110256_P	09/14/11 08:38	MSL	TAL KOP
Total	Analysis	EPA 8260B		1.0	1110256	09/14/11 17:49	CB	TAL KOP
Total	Prep	General Prep SVOC		1.0	1110245_P	09/14/11 00:00	JLE	TAL KOP
Total	Analysis	EPA 8011		1.0	1110245	09/19/11 15:18	MS	TAL KOP
Dissolved	Prep	EPA 200.8 Diss		1.0	1110331_P	09/16/11 07:38	RW	TAL KOP
Dissolved	Analysis	EPA 200.8		1.0	1110331	09/16/11 16:14	RW	TAL KOP

# Lab Chronicle

Client: CENTERPOINT TANK SERVICES, INC  
Project/Site: NA

TestAmerica Job ID: KUI0190

## Client Sample ID: MW - 6

Lab Sample ID: KUI0190-05

Date Collected: 09/09/11 09:01

Matrix: Water

Date Received: 09/12/11 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B (P/T)		1.0	1110256_P	09/14/11 08:38	MSL	TAL KOP
Total	Analysis	EPA 8260B		1.0	1110256	09/14/11 18:19	CB	TAL KOP
Total	Prep	General Prep SVOC		1.0	1110245_P	09/14/11 00:00	JLE	TAL KOP
Total	Analysis	EPA 8011		1.0	1110245	09/19/11 15:38	MS	TAL KOP
Dissolved	Prep	EPA 200.8 Diss		1.0	1110331_P	09/16/11 07:38	RW	TAL KOP
Dissolved	Analysis	EPA 200.8		1.0	1110331	09/16/11 16:19	RW	TAL KOP

## Client Sample ID: MW - 7

Lab Sample ID: KUI0190-06

Date Collected: 09/09/11 12:12

Matrix: Water

Date Received: 09/12/11 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B (P/T)		1.0	1110256_P	09/14/11 08:38	MSL	TAL KOP
Total	Analysis	EPA 8260B		1.0	1110256	09/14/11 18:50	CB	TAL KOP
Total	Prep	EPA 5030B (P/T)	RE1	1.0	1110256_P	09/14/11 08:38	MSL	TAL KOP
Total	Analysis	EPA 8260B	RE1	10	1110256	09/15/11 13:31	CB	TAL KOP
Total	Prep	General Prep SVOC		1.0	1110245_P	09/14/11 00:00	JLE	TAL KOP
Total	Analysis	EPA 8011		1.0	1110245	09/19/11 15:57	MS	TAL KOP
Dissolved	Prep	EPA 200.8 Diss		1.0	1110331_P	09/16/11 07:38	RW	TAL KOP
Dissolved	Analysis	EPA 200.8		1.0	1110331	09/16/11 16:24	RW	TAL KOP

## Client Sample ID: MW - 8

Lab Sample ID: KUI0190-07

Date Collected: 09/09/11 10:47

Matrix: Water

Date Received: 09/12/11 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B (P/T)		1.0	1110256_P	09/14/11 08:38	MSL	TAL KOP
Total	Analysis	EPA 8260B		1.0	1110256	09/15/11 14:32	CB	TAL KOP
Total	Prep	General Prep SVOC		1.0	1110245_P	09/14/11 00:00	JLE	TAL KOP
Total	Analysis	EPA 8011		1.0	1110245	09/19/11 16:16	MS	TAL KOP
Dissolved	Prep	EPA 200.8 Diss		1.0	1110331_P	09/16/11 07:38	RW	TAL KOP
Dissolved	Analysis	EPA 200.8		1.0	1110331	09/16/11 16:29	RW	TAL KOP

### Laboratory References:

TAL KOP = TestAmerica King Of Prussia, 1008 West Ninth Avenue, King of Prussia, PA 19406, TEL 610.337.9992

# Certification Summary

Client: CENTERPOINT TANK SERVICES, INC  
Project/Site: NA

TestAmerica Job ID: KUI0190

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica King Of Prussia	New Jersey	NELAC	2	PA004
TestAmerica King Of Prussia	Pennsylvania	NELAC	3	46-00505
TestAmerica King Of Prussia	USDA	USDA		P330-10-00327

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.





Cooler Receipt Form

WORK ORDER #: KU0190

Client: Centerpoint

Project: Liberty #38

Temperature Upon Receipt by IR: 4.7 °C

Cooler received from: TA Courier Client FedEx UPS Other: \_\_\_\_\_

For Received Shipments only:	
Number of Coolers: 1 2 3+	Custody Seals Intact? Y N
Ice Present? Y N N/A Melted	Packing Material: Bubble Wrap Other None

For Samples to be Subcontracted after receipt only:
ALL preserved containers (except VOA) checked for correct pH and are acceptable? Y N N/A
If Samples need preservation: Preservative/lot#: _____
Ensure that Preservation Stickers are affixed to each container.
Residual Chlorine checks done on each container that needs it? Y N N/A

Voa Vials have air bubbles > 6mm? Y ~~N/A~~

Sufficient volume for all analyses?  Y  N

All Sample Containers Intact?  Y  N

All Sample Containers received:  Y  N

All Sample Containers labeled:  Y  N

All Container labels match COC:  Y  N

List Discrepancies below if indicated:

Review COC against Sample Acceptance Checklist:

1. Client Name & Address present	<input checked="" type="radio"/> Yes	No
2. Project Name and/or Number included	<input checked="" type="radio"/> Yes	No
3. Field Sampler Name listed	<input checked="" type="radio"/> Yes	No
4. Field ID - one sample per line	<input checked="" type="radio"/> Yes	No
5. Date collected (for each sample)	<input checked="" type="radio"/> Yes	No
6. Time collected (for each sample)	<input checked="" type="radio"/> Yes	No
7. Matrix (for each sample)	<input checked="" type="radio"/> Yes	No
8. Number & Types of bottles per sample (and preservation type)	<input checked="" type="radio"/> Yes	No
9. Analysis Requested	<input checked="" type="radio"/> Yes	No
10. Sign & Date in the Relinquished Box	<input checked="" type="radio"/> Yes	No

Discrepancies: \_\_\_\_\_

Sample Location (State):  PA  NJ  DE Other \_\_\_\_\_

State Listed on COC  or Ongoing Project

PM or Client contacted? Y N N/A

Spec Sheet/GAR#: \_\_\_\_\_

Signature: [Signature] Date/Time: 9/12/11



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica King of Prussia  
1008 W Ninth Ave  
King of Prussia, PA 19406  
Tel: (610)337-9992

TestAmerica Job ID: 450-1529-1  
Client Project/Site: Liberty Oil #38

For:  
Center Point Tank Service  
536 E Benjamin Franklin  
Douglassville, Pennsylvania 19518

Attn: William Johns-Villa



Authorized for release by:  
12/16/2011 3:59:21 PM

Ozzy Burgos  
Project Manager I  
ozzy.burgos@testamericainc.com

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-1529-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
450-1529-1	MW-1	Water	12/08/11 09:49	12/09/11 10:30
450-1529-2	MW-2	Water	12/08/11 09:24	12/09/11 10:30
450-1529-3	MW-4	Water	12/08/11 11:31	12/09/11 10:30
450-1529-4	MW-5	Water	12/08/11 10:27	12/09/11 10:30
450-1529-5	MW-6	Water	12/08/11 10:07	12/09/11 10:30
450-1529-6	MW-8	Water	12/08/11 10:49	12/09/11 10:30

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# Case Narrative

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-1529-1

---

## Job ID: 450-1529-1

---

### Laboratory: TestAmerica King of Prussia

#### Narrative

---

#### Job Narrative 450-1529-1

#### Comments

No additional comments.

#### Receipt

All samples were received in good condition within temperature requirements.

#### GC/MS VOA

Method(s) 8260B: This sample is non-homogeneous MW-8 (450-1529-6). All three vials were run with differing results. The D vial at a 1x is being reported with results for ethylbenzene and m,p-xylene being over the upper calibration limit. The upper calibration limit for ethylbenzene and m,p-xylene is 400ppb and 600ppb respectively.

Method(s) 8260B: The following sample(s) was diluted due to the abundance of target analytes: MW-4 (450-1529-3). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

#### GC Semi VOA

No analytical or quality issues were noted.

#### Metals

Method(s) 200.8: The continuing calibration verification (CCV) for Pb associated with batch 4422 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.

#### General Chemistry

No analytical or quality issues were noted.

#### Organic Prep

No analytical or quality issues were noted.



# Definitions/Glossary

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-1529-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.

### Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

## 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
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)

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-1529-1

**Client Sample ID: MW-1**

**Lab Sample ID: 450-1529-1**

Date Collected: 12/08/11 09:49

Matrix: Water

Date Received: 12/09/11 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			12/13/11 21:42	1
1,2-Dichloroethane	ND		1.0		ug/L			12/13/11 21:42	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			12/13/11 21:42	1
Benzene	ND		1.0		ug/L			12/13/11 21:42	1
Ethylbenzene	ND		2.0		ug/L			12/13/11 21:42	1
Isopropylbenzene	ND		2.0		ug/L			12/13/11 21:42	1
Naphthalene	ND		8.0		ug/L			12/13/11 21:42	1
Toluene	ND		2.0		ug/L			12/13/11 21:42	1
Xylenes, Total	ND		6.0		ug/L			12/13/11 21:42	1
Methyl tert-butyl ether	ND		2.0		ug/L			12/13/11 21:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		91 - 114					12/13/11 21:42	1
1,2-Dichloroethane-d4 (Surr)	99		85 - 125					12/13/11 21:42	1
Toluene-d8 (Surr)	95		84 - 111					12/13/11 21:42	1
4-Bromofluorobenzene (Surr)	96		86 - 120					12/13/11 21:42	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.051		ug/L		12/13/11 07:57	12/14/11 11:17	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48		ug/L			12/13/11 19:50	1

**Client Sample ID: MW-2**

**Lab Sample ID: 450-1529-2**

Date Collected: 12/08/11 09:24

Matrix: Water

Date Received: 12/09/11 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			12/14/11 10:59	1
1,2-Dichloroethane	ND		1.0		ug/L			12/14/11 10:59	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			12/14/11 10:59	1
Benzene	ND		1.0		ug/L			12/14/11 10:59	1
Ethylbenzene	ND		2.0		ug/L			12/14/11 10:59	1
Isopropylbenzene	ND		2.0		ug/L			12/14/11 10:59	1
Naphthalene	ND		8.0		ug/L			12/14/11 10:59	1
Toluene	ND		2.0		ug/L			12/14/11 10:59	1
Xylenes, Total	ND		6.0		ug/L			12/14/11 10:59	1
Methyl tert-butyl ether	ND		2.0		ug/L			12/14/11 10:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		91 - 114					12/14/11 10:59	1
1,2-Dichloroethane-d4 (Surr)	99		85 - 125					12/14/11 10:59	1
Toluene-d8 (Surr)	94		84 - 111					12/14/11 10:59	1
4-Bromofluorobenzene (Surr)	97		86 - 120					12/14/11 10:59	1

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-1529-1

## Client Sample ID: MW-2

Lab Sample ID: 450-1529-2

Date Collected: 12/08/11 09:24

Matrix: Water

Date Received: 12/09/11 10:30

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.051		ug/L		12/13/11 07:57	12/14/11 11:36	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48		ug/L			12/13/11 19:55	1

## Client Sample ID: MW-4

Lab Sample ID: 450-1529-3

Date Collected: 12/08/11 11:31

Matrix: Water

Date Received: 12/09/11 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	300		2.0		ug/L			12/15/11 10:44	1
1,2-Dichloroethane	ND		1.0		ug/L			12/15/11 10:44	1
1,3,5-Trimethylbenzene	38		2.0		ug/L			12/15/11 10:44	1
Isopropylbenzene	43		2.0		ug/L			12/15/11 10:44	1
Naphthalene	93		8.0		ug/L			12/15/11 10:44	1
Toluene	120		2.0		ug/L			12/15/11 10:44	1
Xylenes, Total	260		6.0		ug/L			12/15/11 10:44	1
Methyl tert-butyl ether	180		2.0		ug/L			12/15/11 10:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		91 - 114		12/15/11 10:44	1
1,2-Dichloroethane-d4 (Surr)	97		85 - 125		12/15/11 10:44	1
Toluene-d8 (Surr)	95		84 - 111		12/15/11 10:44	1
4-Bromofluorobenzene (Surr)	100		86 - 120		12/15/11 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	560		10		ug/L			12/15/11 18:49	10
Ethylbenzene	310		20		ug/L			12/15/11 18:49	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		91 - 114		12/15/11 18:49	10
1,2-Dichloroethane-d4 (Surr)	103		85 - 125		12/15/11 18:49	10
Toluene-d8 (Surr)	95		84 - 111		12/15/11 18:49	10
4-Bromofluorobenzene (Surr)	98		86 - 120		12/15/11 18:49	10

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.051		ug/L		12/13/11 07:57	12/14/11 11:56	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48		ug/L			12/13/11 20:00	1

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-1529-1

**Client Sample ID: MW-5**

**Lab Sample ID: 450-1529-4**

Date Collected: 12/08/11 10:27

Matrix: Water

Date Received: 12/09/11 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			12/14/11 11:59	1
1,2-Dichloroethane	ND		1.0		ug/L			12/14/11 11:59	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			12/14/11 11:59	1
Benzene	ND		1.0		ug/L			12/14/11 11:59	1
Ethylbenzene	ND		2.0		ug/L			12/14/11 11:59	1
Isopropylbenzene	ND		2.0		ug/L			12/14/11 11:59	1
Naphthalene	ND		8.0		ug/L			12/14/11 11:59	1
Toluene	ND		2.0		ug/L			12/14/11 11:59	1
Xylenes, Total	ND		6.0		ug/L			12/14/11 11:59	1
Methyl tert-butyl ether	ND		2.0		ug/L			12/14/11 11:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		91 - 114					12/14/11 11:59	1
1,2-Dichloroethane-d4 (Surr)	97		85 - 125					12/14/11 11:59	1
Toluene-d8 (Surr)	95		84 - 111					12/14/11 11:59	1
4-Bromofluorobenzene (Surr)	100		86 - 120					12/14/11 11:59	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.050		ug/L		12/13/11 07:57	12/14/11 12:16	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48		ug/L			12/13/11 20:05	1

**Client Sample ID: MW-6**

**Lab Sample ID: 450-1529-5**

Date Collected: 12/08/11 10:07

Matrix: Water

Date Received: 12/09/11 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			12/14/11 12:29	1
1,2-Dichloroethane	ND		1.0		ug/L			12/14/11 12:29	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			12/14/11 12:29	1
Benzene	ND		1.0		ug/L			12/14/11 12:29	1
Ethylbenzene	ND		2.0		ug/L			12/14/11 12:29	1
Isopropylbenzene	ND		2.0		ug/L			12/14/11 12:29	1
Naphthalene	ND		8.0		ug/L			12/14/11 12:29	1
Toluene	ND		2.0		ug/L			12/14/11 12:29	1
Xylenes, Total	ND		6.0		ug/L			12/14/11 12:29	1
Methyl tert-butyl ether	ND		2.0		ug/L			12/14/11 12:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		91 - 114					12/14/11 12:29	1
1,2-Dichloroethane-d4 (Surr)	98		85 - 125					12/14/11 12:29	1
Toluene-d8 (Surr)	97		84 - 111					12/14/11 12:29	1
4-Bromofluorobenzene (Surr)	101		86 - 120					12/14/11 12:29	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.051		ug/L		12/13/11 07:57	12/14/11 12:35	1

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-1529-1

## Client Sample ID: MW-6

Date Collected: 12/08/11 10:07

Date Received: 12/09/11 10:30

## Lab Sample ID: 450-1529-5

Matrix: Water

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.0		0.48		ug/L			12/14/11 11:49	1

## Client Sample ID: MW-8

Date Collected: 12/08/11 10:49

Date Received: 12/09/11 10:30

## Lab Sample ID: 450-1529-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	430	E	2.0		ug/L			12/14/11 12:59	1
1,2-Dichloroethane	ND		1.0		ug/L			12/14/11 12:59	1
1,3,5-Trimethylbenzene	120		2.0		ug/L			12/14/11 12:59	1
Benzene	380		1.0		ug/L			12/14/11 12:59	1
Ethylbenzene	290		2.0		ug/L			12/14/11 12:59	1
Isopropylbenzene	33		2.0		ug/L			12/14/11 12:59	1
Naphthalene	59		8.0		ug/L			12/14/11 12:59	1
Toluene	79		2.0		ug/L			12/14/11 12:59	1
Xylenes, Total	770		6.0		ug/L			12/14/11 12:59	1
Methyl tert-butyl ether	26		2.0		ug/L			12/14/11 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		91 - 114		12/14/11 12:59	1
1,2-Dichloroethane-d4 (Surr)	96		85 - 125		12/14/11 12:59	1
Toluene-d8 (Surr)	94		84 - 111		12/14/11 12:59	1
4-Bromofluorobenzene (Surr)	99		86 - 120		12/14/11 12:59	1

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.051		ug/L		12/13/11 07:59	12/14/11 12:55	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	^	0.48		ug/L			12/13/11 20:25	1

# Lab Chronicle

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-1529-1

## Client Sample ID: MW-1

Date Collected: 12/08/11 09:49

Date Received: 12/09/11 10:30

## Lab Sample ID: 450-1529-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	4383	12/13/11 21:42	MSL	TAL KOP
Total/NA	Prep	8011			4357	12/13/11 07:57	NC	TAL KOP
Total/NA	Analysis	8011		1	4421	12/14/11 11:17	MS	TAL KOP
Dissolved	Analysis	200.8		1	4422	12/13/11 19:50	TYH	TAL KOP

## Client Sample ID: MW-2

Date Collected: 12/08/11 09:24

Date Received: 12/09/11 10:30

## Lab Sample ID: 450-1529-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	4429	12/14/11 10:59	MSL	TAL KOP
Total/NA	Prep	8011			4357	12/13/11 07:57	NC	TAL KOP
Total/NA	Analysis	8011		1	4421	12/14/11 11:36	MS	TAL KOP
Dissolved	Analysis	200.8		1	4422	12/13/11 19:55	TYH	TAL KOP

## Client Sample ID: MW-4

Date Collected: 12/08/11 11:31

Date Received: 12/09/11 10:30

## Lab Sample ID: 450-1529-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	4486	12/15/11 10:44	MSL	TAL KOP
Total/NA	Analysis	8260B	DL	10	4507	12/15/11 18:49	MSL	TAL KOP
Total/NA	Prep	8011			4357	12/13/11 07:57	NC	TAL KOP
Total/NA	Analysis	8011		1	4421	12/14/11 11:56	MS	TAL KOP
Dissolved	Analysis	200.8		1	4422	12/13/11 20:00	TYH	TAL KOP

## Client Sample ID: MW-5

Date Collected: 12/08/11 10:27

Date Received: 12/09/11 10:30

## Lab Sample ID: 450-1529-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	4429	12/14/11 11:59	MSL	TAL KOP
Total/NA	Prep	8011			4357	12/13/11 07:57	NC	TAL KOP
Total/NA	Analysis	8011		1	4421	12/14/11 12:16	MS	TAL KOP
Dissolved	Analysis	200.8		1	4422	12/13/11 20:05	TYH	TAL KOP

## Client Sample ID: MW-6

Date Collected: 12/08/11 10:07

Date Received: 12/09/11 10:30

## Lab Sample ID: 450-1529-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	4429	12/14/11 12:29	MSL	TAL KOP
Total/NA	Prep	8011			4357	12/13/11 07:57	NC	TAL KOP



# Lab Chronicle

Client: Center Point Tank Service  
 Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-1529-1

## Client Sample ID: MW-6

Date Collected: 12/08/11 10:07

Date Received: 12/09/11 10:30

## Lab Sample ID: 450-1529-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8011		1	4421	12/14/11 12:35	MS	TAL KOP
Dissolved	Analysis	200.8		1	4470	12/14/11 11:49	SPC	TAL KOP

## Client Sample ID: MW-8

Date Collected: 12/08/11 10:49

Date Received: 12/09/11 10:30

## Lab Sample ID: 450-1529-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	4429	12/14/11 12:59	MSL	TAL KOP
Total/NA	Prep	8011			4357	12/13/11 07:59	NC	TAL KOP
Total/NA	Analysis	8011		1	4421	12/14/11 12:55	MS	TAL KOP
Dissolved	Analysis	200.8		1	4422	12/13/11 20:25	TYH	TAL KOP

**Laboratory References:**

TAL KOP = TestAmerica King of Prussia, 1008 W Ninth Ave, King of Prussia, PA 19406, TEL (610)337-9992



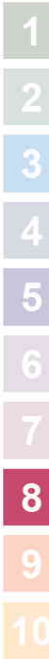
# Certification Summary

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-1529-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica King of Prussia	New Jersey	NELAC	2	PA004
TestAmerica King of Prussia	Pennsylvania	NELAC	3	46-00505
TestAmerica King of Prussia	USDA	USDA		P330-10-00327

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY REPORT

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

2/16/2011

Client: CENTRAL BANK TRUNK SERVICES  
Address: 550 E. BOB FRANKLIN HWY

Bill To: SAVING  
Address:

Report to: SVI ANALYSIS  
E-mail: SVI@SVI-PA.COM

State & Program: PA

Phone #: (610) 337-9992  
Fax #: (610) 337-9939

Terms: Net 30 days  
Deliverable Package:  NO  YES  
Temp. Upon Receipt: 1.6'

Project Name: LIBERTY DR # 385  
Project #/PO#: 08-12-4232  
Sampler: 100

# of Bottles Preservative Used

SAMPLES FIELD FILTERED  
 YES  NO  
LEADER  YES  NO  
IN LEADER  YES  NO

ANALYSIS TYPE  
LABORATORY ID NUMBER  
450-1529-1

CMS

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LEADER <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	IN LEADER <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	ANALYSIS TYPE	SAMPLE CONTROL CRACKED-BROKEN IMPROPERLY SEALED	LABORATORY ID NUMBER
				MeOH	DI	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	NONE							
1 MW-1	1/28/11	0711	ACW								31	25	X	X			450-1529-1
2 MW-2		0724									31	25	X	X			-2
3 MW-4		1151									31	25	X	X			-3
4 MW-5		1027									31	25	X	X			-4
5 MW-6		1004									31	25	X	X			-5
6 MW-8		1049									32	25	X	X			-6
7																	
8																	
9																	
10																	

RECEIVED DATE TIME 1/29/11 12:00 PM  
RELINQUISHED DATE TIME 1/29/11 10:30 AM  
RECEIVED DATE TIME 1/29/11 10:30 AM  
RELINQUISHED DATE TIME 1/29/11 10:30 AM

## Login Sample Receipt Checklist

Client: Center Point Tank Service

Job Number: 450-1529-1

Login Number: 1529

List Number: 1

Creator: Severs, William

List Source: TestAmerica King of Prussia

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.	True	
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.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica King of Prussia  
1008 W Ninth Ave  
King of Prussia, PA 19406  
Tel: (610)337-9992

TestAmerica Job ID: 450-3488-1  
Client Project/Site: Liberty Oil #38

For:  
Center Point Tank Service  
536 E Benjamin Franklin  
Douglassville, Pennsylvania 19518

Attn: Rachel Burkart



Authorized for release by:  
4/4/2012 4:13:42 PM

Ozzy Burgos  
Project Manager I  
ozzy.burgos@testamericainc.com

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-3488-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
450-3488-1	MW-1	Water	03/27/12 10:53	03/28/12 10:38
450-3488-2	MW-2	Water	03/27/12 11:23	03/28/12 10:38
450-3488-3	MW-4	Water	03/27/12 12:36	03/28/12 10:38
450-3488-4	MW-5	Water	03/27/12 12:16	03/28/12 10:38
450-3488-5	MW-6	Water	03/27/12 11:39	03/28/12 10:38

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# Case Narrative

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-3488-1

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**Job ID: 450-3488-1**

---

**Laboratory: TestAmerica King of Prussia**

**Narrative**

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**Job Narrative**  
450-3488-1

**Comments**

No additional comments.

**Receipt**

All samples were received in good condition within temperature requirements.

**GC/MS VOA**

No analytical or quality issues were noted.

**GC Semi VOA**

No analytical or quality issues were noted.

**Metals**

Method(s) 200.8: The post digestion spike % recovery for Pb associated with batch 9598 was outside of control limits.

No other analytical or quality issues were noted.

**General Chemistry**

No analytical or quality issues were noted.

**Organic Prep**

No analytical or quality issues were noted.



# Definitions/Glossary

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-3488-1

## 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)

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-3488-1

**Client Sample ID: MW-1**

**Lab Sample ID: 450-3488-1**

Date Collected: 03/27/12 10:53

Matrix: Water

Date Received: 03/28/12 10:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			03/29/12 18:24	1
1,2-Dichloroethane	ND		1.0		ug/L			03/29/12 18:24	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			03/29/12 18:24	1
Benzene	ND		1.0		ug/L			03/29/12 18:24	1
Ethylbenzene	ND		2.0		ug/L			03/29/12 18:24	1
Isopropylbenzene	ND		2.0		ug/L			03/29/12 18:24	1
Naphthalene	ND		8.0		ug/L			03/29/12 18:24	1
Toluene	ND		2.0		ug/L			03/29/12 18:24	1
Xylenes, Total	ND		6.0		ug/L			03/29/12 18:24	1
Methyl tert-butyl ether	ND		2.0		ug/L			03/29/12 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		91 - 114		03/29/12 18:24	1
1,2-Dichloroethane-d4 (Surr)	102		85 - 125		03/29/12 18:24	1
Toluene-d8 (Surr)	99		84 - 111		03/29/12 18:24	1
4-Bromofluorobenzene (Surr)	107		86 - 120		03/29/12 18:24	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.050		ug/L		03/29/12 07:14	03/29/12 12:04	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.88		0.48		ug/L			04/03/12 13:52	1

**Client Sample ID: MW-2**

**Lab Sample ID: 450-3488-2**

Date Collected: 03/27/12 11:23

Matrix: Water

Date Received: 03/28/12 10:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			03/29/12 18:54	1
1,2-Dichloroethane	ND		1.0		ug/L			03/29/12 18:54	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			03/29/12 18:54	1
Benzene	ND		1.0		ug/L			03/29/12 18:54	1
Ethylbenzene	ND		2.0		ug/L			03/29/12 18:54	1
Isopropylbenzene	ND		2.0		ug/L			03/29/12 18:54	1
Naphthalene	ND		8.0		ug/L			03/29/12 18:54	1
Toluene	ND		2.0		ug/L			03/29/12 18:54	1
Xylenes, Total	ND		6.0		ug/L			03/29/12 18:54	1
Methyl tert-butyl ether	ND		2.0		ug/L			03/29/12 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		91 - 114		03/29/12 18:54	1
1,2-Dichloroethane-d4 (Surr)	100		85 - 125		03/29/12 18:54	1
Toluene-d8 (Surr)	99		84 - 111		03/29/12 18:54	1
4-Bromofluorobenzene (Surr)	107		86 - 120		03/29/12 18:54	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.049		ug/L		03/29/12 07:14	03/29/12 12:24	1

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-3488-1

## Client Sample ID: MW-2

Lab Sample ID: 450-3488-2

Date Collected: 03/27/12 11:23

Matrix: Water

Date Received: 03/28/12 10:38

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48		ug/L			04/03/12 14:02	1

## Client Sample ID: MW-4

Lab Sample ID: 450-3488-3

Date Collected: 03/27/12 12:36

Matrix: Water

Date Received: 03/28/12 10:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0		ug/L			03/29/12 19:23	1
1,3,5-Trimethylbenzene	100		2.0		ug/L			03/29/12 19:23	1
Isopropylbenzene	33		2.0		ug/L			03/29/12 19:23	1
Naphthalene	94		8.0		ug/L			03/29/12 19:23	1
Xylenes, Total	820		6.0		ug/L			03/29/12 19:23	1
Methyl tert-butyl ether	200		2.0		ug/L			03/29/12 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	93		91 - 114		03/29/12 19:23	1
1,2-Dichloroethane-d4 (Surr)	99		85 - 125		03/29/12 19:23	1
Toluene-d8 (Surr)	96		84 - 111		03/29/12 19:23	1
4-Bromofluorobenzene (Surr)	104		86 - 120		03/29/12 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	350		20		ug/L			04/02/12 16:43	10
Benzene	960		10		ug/L			04/02/12 16:43	10
Ethylbenzene	420		20		ug/L			04/02/12 16:43	10
Toluene	520		20		ug/L			04/02/12 16:43	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		91 - 114		04/02/12 16:43	10
1,2-Dichloroethane-d4 (Surr)	102		85 - 125		04/02/12 16:43	10
Toluene-d8 (Surr)	99		84 - 111		04/02/12 16:43	10
4-Bromofluorobenzene (Surr)	98		86 - 120		04/02/12 16:43	10

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.050		ug/L		03/29/12 07:14	03/29/12 12:43	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48		ug/L			04/03/12 14:07	1

## Client Sample ID: MW-5

Lab Sample ID: 450-3488-4

Date Collected: 03/27/12 12:16

Matrix: Water

Date Received: 03/28/12 10:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			03/29/12 19:53	1
1,2-Dichloroethane	ND		1.0		ug/L			03/29/12 19:53	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			03/29/12 19:53	1
Benzene	ND		1.0		ug/L			03/29/12 19:53	1
Ethylbenzene	ND		2.0		ug/L			03/29/12 19:53	1

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-3488-1

**Client Sample ID: MW-5**

**Lab Sample ID: 450-3488-4**

Date Collected: 03/27/12 12:16

Matrix: Water

Date Received: 03/28/12 10:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		2.0		ug/L			03/29/12 19:53	1
Naphthalene	ND		8.0		ug/L			03/29/12 19:53	1
Toluene	ND		2.0		ug/L			03/29/12 19:53	1
Xylenes, Total	ND		6.0		ug/L			03/29/12 19:53	1
Methyl tert-butyl ether	ND		2.0		ug/L			03/29/12 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		91 - 114		03/29/12 19:53	1
1,2-Dichloroethane-d4 (Surr)	96		85 - 125		03/29/12 19:53	1
Toluene-d8 (Surr)	97		84 - 111		03/29/12 19:53	1
4-Bromofluorobenzene (Surr)	110		86 - 120		03/29/12 19:53	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.050		ug/L		03/29/12 07:14	03/29/12 13:03	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48		ug/L			04/03/12 14:12	1

**Client Sample ID: MW-6**

**Lab Sample ID: 450-3488-5**

Date Collected: 03/27/12 11:39

Matrix: Water

Date Received: 03/28/12 10:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			03/29/12 20:22	1
1,2-Dichloroethane	ND		1.0		ug/L			03/29/12 20:22	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			03/29/12 20:22	1
Benzene	ND		1.0		ug/L			03/29/12 20:22	1
Ethylbenzene	ND		2.0		ug/L			03/29/12 20:22	1
Isopropylbenzene	ND		2.0		ug/L			03/29/12 20:22	1
Naphthalene	ND		8.0		ug/L			03/29/12 20:22	1
Toluene	ND		2.0		ug/L			03/29/12 20:22	1
Xylenes, Total	ND		6.0		ug/L			03/29/12 20:22	1
Methyl tert-butyl ether	ND		2.0		ug/L			03/29/12 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		91 - 114		03/29/12 20:22	1
1,2-Dichloroethane-d4 (Surr)	99		85 - 125		03/29/12 20:22	1
Toluene-d8 (Surr)	99		84 - 111		03/29/12 20:22	1
4-Bromofluorobenzene (Surr)	109		86 - 120		03/29/12 20:22	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.051		ug/L		03/29/12 07:14	03/29/12 13:23	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	44		0.96		ug/L			04/03/12 14:17	2

# Lab Chronicle

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-3488-1

## Client Sample ID: MW-1

Lab Sample ID: 450-3488-1

Date Collected: 03/27/12 10:53

Matrix: Water

Date Received: 03/28/12 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	9351	03/29/12 18:24	AHK	TAL KOP
Total/NA	Prep	8011			9344	03/29/12 07:14	NC	TAL KOP
Total/NA	Analysis	8011		1	9346	03/29/12 12:04	GMA	TAL KOP
Dissolved	Analysis	200.8		1	9598	04/03/12 13:52	TYH	TAL KOP

## Client Sample ID: MW-2

Lab Sample ID: 450-3488-2

Date Collected: 03/27/12 11:23

Matrix: Water

Date Received: 03/28/12 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	9351	03/29/12 18:54	AHK	TAL KOP
Total/NA	Prep	8011			9344	03/29/12 07:14	NC	TAL KOP
Total/NA	Analysis	8011		1	9346	03/29/12 12:24	GMA	TAL KOP
Dissolved	Analysis	200.8		1	9598	04/03/12 14:02	TYH	TAL KOP

## Client Sample ID: MW-4

Lab Sample ID: 450-3488-3

Date Collected: 03/27/12 12:36

Matrix: Water

Date Received: 03/28/12 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	9351	03/29/12 19:23	AHK	TAL KOP
Total/NA	Analysis	8260B	DL	10	9503	04/02/12 16:43	CB	TAL KOP
Total/NA	Prep	8011			9344	03/29/12 07:14	NC	TAL KOP
Total/NA	Analysis	8011		1	9346	03/29/12 12:43	GMA	TAL KOP
Dissolved	Analysis	200.8		1	9598	04/03/12 14:07	TYH	TAL KOP

## Client Sample ID: MW-5

Lab Sample ID: 450-3488-4

Date Collected: 03/27/12 12:16

Matrix: Water

Date Received: 03/28/12 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	9351	03/29/12 19:53	AHK	TAL KOP
Total/NA	Prep	8011			9344	03/29/12 07:14	NC	TAL KOP
Total/NA	Analysis	8011		1	9346	03/29/12 13:03	GMA	TAL KOP
Dissolved	Analysis	200.8		1	9598	04/03/12 14:12	TYH	TAL KOP

## Client Sample ID: MW-6

Lab Sample ID: 450-3488-5

Date Collected: 03/27/12 11:39

Matrix: Water

Date Received: 03/28/12 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	9351	03/29/12 20:22	AHK	TAL KOP
Total/NA	Prep	8011			9344	03/29/12 07:14	NC	TAL KOP

# Lab Chronicle

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-3488-1

**Client Sample ID: MW-6**

**Lab Sample ID: 450-3488-5**

**Date Collected: 03/27/12 11:39**

**Matrix: Water**

**Date Received: 03/28/12 10:38**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8011		1	9346	03/29/12 13:23	GMA	TAL KOP
Dissolved	Analysis	200.8		2	9598	04/03/12 14:17	TYH	TAL KOP

**Laboratory References:**

TAL KOP = TestAmerica King of Prussia, 1008 W Ninth Ave, King of Prussia, PA 19406, TEL (610)337-9992



# Certification Summary

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-3488-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica King of Prussia	New Jersey	NELAC	2	PA004
TestAmerica King of Prussia	Pennsylvania	NELAC	3	46-00505
TestAmerica King of Prussia	USDA	Federal		P330-10-00327

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY REPORT

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

4/4/2012

CMS

Client: <b>Country Font Tank Services</b>		Bill To: <b>Same</b>		TAT: <input checked="" type="checkbox"/> 1 DAY <input checked="" type="checkbox"/> 2 DAY <input type="checkbox"/> 3 DAY <input type="checkbox"/> 4 DAY <input type="checkbox"/> 5 DAY		Received: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		DATE RESULTS NEEDED: <b>5/1</b>					
Address: <b>536 E Benjamin Franklin Hwy</b>		Address:		State & Program: <b>PAUST</b>		Deliverable Package: <input type="checkbox"/> ambient <input type="checkbox"/> ice		Temp. Upon Receipt: <b>5/1</b>					
Report to: <b>Rachel Burkart</b>		Phone #: <b>(610) 335-4977</b>		Terms: <b>Net 30 days</b>		Phone #: <b>( ) ( )</b>		Fax #: <b>( ) ( )</b>					
E-mail: <b>rachel@fonttank.com</b>		Fax #: <b>( ) ( )</b>		Project Name: <b>Liberty 01 #38</b>		Project #/PO#: <b>08-12-4292</b>		Sampler: <b>Rachel Burkart</b>					
FIELD ID, LOCATION		DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX		# of Bottles Preservative Used		TOTAL # OF BOTTLES		ANALYSIS TYPE	SAMPLE CONTROL	LABORATORY ID NUMBER	
				MeOH	DI	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH				NONE
1	MW-1	3/27/12	1053	GU	3	1	1	1	1	5	X	X	450-3488-1
2	MW-2	3/27/12	1123		3	1	1	1	1	5	X	X	-2
3	MW-4	3/27/12	1235		3	1	1	1	1	5	X	X	-3
4	MW-5	3/27/12	1216		3	1	1	1	1	5	X	X	-4
5	MW-6	3/27/12	1139		3	1	1	1	1	5	X	X	-5
6													
7													
8													
9													
10													
RELEASING/RECEIVED		DATE	TIME	RECEIVED		DATE	TIME	RELEASING/RECEIVED		DATE	TIME	DATE	TIME
RELINQUISHED		DATE	TIME	RECEIVED		DATE	TIME	RELEASING/RECEIVED		DATE	TIME	DATE	TIME
COMMENTS: <b>Relinquished by Rachel Burkart 3/27/12 11:39 AM</b> <b>Received by John ASD 3/28/12 10:38 AM</b>													

## Login Sample Receipt Checklist

Client: Center Point Tank Service

Job Number: 450-3488-1

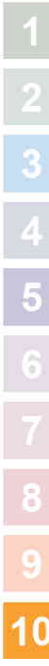
**Login Number: 3488**

**List Source: TestAmerica King of Prussia**

**List Number: 1**

**Creator: Visconti, Caitlyn A**

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.	True	
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.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica King of Prussia  
1008 W Ninth Ave  
King of Prussia, PA 19406  
Tel: (610)337-9992

TestAmerica Job ID: 450-4843-1  
Client Project/Site: Liberty Oil #38

For:  
Center Point Tank Service  
536 E Benjamin Franklin  
Douglassville, Pennsylvania 19518

Attn: Rachel Burkart



Authorized for release by:  
6/19/2012 2:01:23 PM

Ozzy Burgos  
Project Manager I  
ozzy.burgos@testamericainc.com

### LINKS

Review your project  
results through  
**TotalAccess**

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[www.testamericainc.com](http://www.testamericainc.com)

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*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: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-4843-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
450-4843-1	MW-1	Water	06/08/12 10:40	06/11/12 10:15
450-4843-2	MW-2	Water	06/08/12 10:56	06/11/12 10:15
450-4843-3	MW-4	Water	06/08/12 12:40	06/11/12 10:15
450-4843-4	MW-5	Water	06/08/12 11:12	06/11/12 10:15
450-4843-5	MW-6	Water	06/08/12 11:26	06/11/12 10:15
450-4843-6	MW-8	Water	06/08/12 13:10	06/11/12 10:15
450-4843-7	MW-9	Water	06/08/12 12:14	06/11/12 10:15
450-4843-8	MW-10	Water	06/08/12 11:49	06/11/12 10:15

- 1
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- 9
- 10

# Case Narrative

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-4843-1

**Job ID: 450-4843-1**

**Laboratory: TestAmerica King of Prussia**

## Narrative

**Job Narrative**  
450-4843-1

## Comments

No additional comments.

## Receipt

The samples were received on 6/11/2012 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5° C.

## GC/MS VOA

Method(s) 8260B: The following sample(s) was diluted due to the abundance of target analytes: MW-10 (450-4843-8), MW-4 (450-4843-3), MW-8 (450-4843-6). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following sample(s) was diluted due to the abundance of target analytes: MW-8 (450-4843-6). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

## GC Semi VOA

No analytical or quality issues were noted.

## Metals

No analytical or quality issues were noted.

## General Chemistry

No analytical or quality issues were noted.

## Organic Prep

No analytical or quality issues were noted.

# Definitions/Glossary

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-4843-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
L	A negative instrument reading had an absolute value greater than the reporting limit

## 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)

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-4843-1

**Client Sample ID: MW-1**

**Lab Sample ID: 450-4843-1**

Date Collected: 06/08/12 10:40

Matrix: Water

Date Received: 06/11/12 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			06/12/12 03:28	1
1,2-Dichloroethane	ND		1.0		ug/L			06/12/12 03:28	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			06/12/12 03:28	1
Benzene	ND		1.0		ug/L			06/12/12 03:28	1
Ethylbenzene	ND		2.0		ug/L			06/12/12 03:28	1
Isopropylbenzene	ND		2.0		ug/L			06/12/12 03:28	1
Naphthalene	ND		8.0		ug/L			06/12/12 13:48	1
Toluene	ND		2.0		ug/L			06/12/12 03:28	1
Xylenes, Total	ND		6.0		ug/L			06/12/12 03:28	1
Methyl tert-butyl ether	ND		2.0		ug/L			06/12/12 03:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		91 - 114		06/12/12 03:28	1
Dibromofluoromethane (Surr)	97		91 - 114		06/12/12 13:48	1
1,2-Dichloroethane-d4 (Surr)	107		85 - 125		06/12/12 03:28	1
1,2-Dichloroethane-d4 (Surr)	104		85 - 125		06/12/12 13:48	1
Toluene-d8 (Surr)	99		84 - 111		06/12/12 03:28	1
Toluene-d8 (Surr)	100		84 - 111		06/12/12 13:48	1
4-Bromofluorobenzene (Surr)	101		86 - 120		06/12/12 03:28	1
4-Bromofluorobenzene (Surr)	103		86 - 120		06/12/12 13:48	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.038		ug/L		06/13/12 10:12	06/14/12 12:58	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48		ug/L			06/18/12 13:09	1

**Client Sample ID: MW-2**

**Lab Sample ID: 450-4843-2**

Date Collected: 06/08/12 10:56

Matrix: Water

Date Received: 06/11/12 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			06/12/12 03:57	1
1,2-Dichloroethane	ND		1.0		ug/L			06/12/12 03:57	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			06/12/12 03:57	1
Benzene	ND		1.0		ug/L			06/12/12 03:57	1
Ethylbenzene	ND		2.0		ug/L			06/12/12 03:57	1
Isopropylbenzene	ND		2.0		ug/L			06/12/12 03:57	1
Naphthalene	ND		8.0		ug/L			06/12/12 14:17	1
Toluene	ND		2.0		ug/L			06/12/12 03:57	1
Xylenes, Total	ND		6.0		ug/L			06/12/12 03:57	1
Methyl tert-butyl ether	ND		2.0		ug/L			06/12/12 03:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		91 - 114		06/12/12 03:57	1
Dibromofluoromethane (Surr)	96		91 - 114		06/12/12 14:17	1
1,2-Dichloroethane-d4 (Surr)	105		85 - 125		06/12/12 03:57	1
1,2-Dichloroethane-d4 (Surr)	103		85 - 125		06/12/12 14:17	1
Toluene-d8 (Surr)	100		84 - 111		06/12/12 03:57	1

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-4843-1

## Client Sample ID: MW-2

Lab Sample ID: 450-4843-2

Date Collected: 06/08/12 10:56

Matrix: Water

Date Received: 06/11/12 10:15

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		84 - 111		06/12/12 14:17	1
4-Bromofluorobenzene (Surr)	102		86 - 120		06/12/12 03:57	1
4-Bromofluorobenzene (Surr)	102		86 - 120		06/12/12 14:17	1

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.038		ug/L		06/13/12 10:12	06/14/12 13:18	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48		ug/L			06/18/12 13:19	1

## Client Sample ID: MW-4

Lab Sample ID: 450-4843-3

Date Collected: 06/08/12 12:40

Matrix: Water

Date Received: 06/11/12 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	140		20		ug/L			06/12/12 04:26	10
1,2-Dichloroethane	ND		10		ug/L			06/12/12 04:26	10
1,3,5-Trimethylbenzene	ND		20		ug/L			06/12/12 04:26	10
Benzene	480		10		ug/L			06/12/12 04:26	10
Ethylbenzene	240		20		ug/L			06/12/12 04:26	10
Isopropylbenzene	21		20		ug/L			06/12/12 04:26	10
Naphthalene	30		8.0		ug/L			06/12/12 14:46	1
Toluene	30		20		ug/L			06/12/12 04:26	10
Xylenes, Total	150		60		ug/L			06/12/12 04:26	10
Methyl tert-butyl ether	89		20		ug/L			06/12/12 04:26	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		91 - 114		06/12/12 04:26	10
Dibromofluoromethane (Surr)	97		91 - 114		06/12/12 14:46	1
1,2-Dichloroethane-d4 (Surr)	108		85 - 125		06/12/12 04:26	10
1,2-Dichloroethane-d4 (Surr)	104		85 - 125		06/12/12 14:46	1
Toluene-d8 (Surr)	100		84 - 111		06/12/12 04:26	10
Toluene-d8 (Surr)	100		84 - 111		06/12/12 14:46	1
4-Bromofluorobenzene (Surr)	101		86 - 120		06/12/12 04:26	10
4-Bromofluorobenzene (Surr)	101		86 - 120		06/12/12 14:46	1

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.038		ug/L		06/13/12 10:12	06/14/12 13:38	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48		ug/L			06/18/12 13:24	1

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-4843-1

**Client Sample ID: MW-5**

**Lab Sample ID: 450-4843-4**

Date Collected: 06/08/12 11:12

Matrix: Water

Date Received: 06/11/12 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			06/12/12 04:55	1
1,2-Dichloroethane	ND		1.0		ug/L			06/12/12 04:55	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			06/12/12 04:55	1
Benzene	ND		1.0		ug/L			06/12/12 04:55	1
Ethylbenzene	ND		2.0		ug/L			06/12/12 04:55	1
Isopropylbenzene	ND		2.0		ug/L			06/12/12 04:55	1
Naphthalene	ND		8.0		ug/L			06/12/12 15:15	1
Toluene	ND		2.0		ug/L			06/12/12 04:55	1
Xylenes, Total	ND		6.0		ug/L			06/12/12 04:55	1
Methyl tert-butyl ether	ND		2.0		ug/L			06/12/12 04:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		91 - 114		06/12/12 04:55	1
Dibromofluoromethane (Surr)	96		91 - 114		06/12/12 15:15	1
1,2-Dichloroethane-d4 (Surr)	106		85 - 125		06/12/12 04:55	1
1,2-Dichloroethane-d4 (Surr)	104		85 - 125		06/12/12 15:15	1
Toluene-d8 (Surr)	100		84 - 111		06/12/12 04:55	1
Toluene-d8 (Surr)	100		84 - 111		06/12/12 15:15	1
4-Bromofluorobenzene (Surr)	101		86 - 120		06/12/12 04:55	1
4-Bromofluorobenzene (Surr)	102		86 - 120		06/12/12 15:15	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.038		ug/L		06/13/12 10:12	06/14/12 13:58	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	L	0.48		ug/L			06/18/12 13:29	1

**Client Sample ID: MW-6**

**Lab Sample ID: 450-4843-5**

Date Collected: 06/08/12 11:26

Matrix: Water

Date Received: 06/11/12 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			06/12/12 05:24	1
1,2-Dichloroethane	ND		1.0		ug/L			06/12/12 05:24	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			06/12/12 05:24	1
Benzene	ND		1.0		ug/L			06/12/12 05:24	1
Ethylbenzene	ND		2.0		ug/L			06/12/12 05:24	1
Isopropylbenzene	ND		2.0		ug/L			06/12/12 05:24	1
Naphthalene	ND		8.0		ug/L			06/12/12 15:44	1
Toluene	ND		2.0		ug/L			06/12/12 05:24	1
Xylenes, Total	ND		6.0		ug/L			06/12/12 05:24	1
Methyl tert-butyl ether	ND		2.0		ug/L			06/12/12 05:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		91 - 114		06/12/12 05:24	1
Dibromofluoromethane (Surr)	96		91 - 114		06/12/12 15:44	1
1,2-Dichloroethane-d4 (Surr)	107		85 - 125		06/12/12 05:24	1
1,2-Dichloroethane-d4 (Surr)	104		85 - 125		06/12/12 15:44	1
Toluene-d8 (Surr)	100		84 - 111		06/12/12 05:24	1

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-4843-1

## Client Sample ID: MW-6

Lab Sample ID: 450-4843-5

Date Collected: 06/08/12 11:26

Matrix: Water

Date Received: 06/11/12 10:15

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		84 - 111		06/12/12 15:44	1
4-Bromofluorobenzene (Surr)	101		86 - 120		06/12/12 05:24	1
4-Bromofluorobenzene (Surr)	101		86 - 120		06/12/12 15:44	1

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.038		ug/L		06/13/12 10:12	06/14/12 14:18	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12		0.48		ug/L			06/18/12 13:34	1

## Client Sample ID: MW-8

Lab Sample ID: 450-4843-6

Date Collected: 06/08/12 13:10

Matrix: Water

Date Received: 06/11/12 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	190		8.0		ug/L			06/12/12 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	94		91 - 114		06/12/12 16:13	1
1,2-Dichloroethane-d4 (Surr)	103		85 - 125		06/12/12 16:13	1
Toluene-d8 (Surr)	99		84 - 111		06/12/12 16:13	1
4-Bromofluorobenzene (Surr)	101		86 - 120		06/12/12 16:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	580		40		ug/L			06/13/12 14:41	20
1,2-Dichloroethane	ND		20		ug/L			06/13/12 14:41	20
1,3,5-Trimethylbenzene	160		40		ug/L			06/13/12 14:41	20
Benzene	450		20		ug/L			06/13/12 14:41	20
Ethylbenzene	370		40		ug/L			06/13/12 14:41	20
Isopropylbenzene	46		40		ug/L			06/13/12 14:41	20
Toluene	360		40		ug/L			06/13/12 14:41	20
Xylenes, Total	1200		120		ug/L			06/13/12 14:41	20
Methyl tert-butyl ether	ND		40		ug/L			06/13/12 14:41	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		91 - 114		06/13/12 14:41	20
1,2-Dichloroethane-d4 (Surr)	105		85 - 125		06/13/12 14:41	20
Toluene-d8 (Surr)	101		84 - 111		06/13/12 14:41	20
4-Bromofluorobenzene (Surr)	102		86 - 120		06/13/12 14:41	20

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.038		ug/L		06/13/12 10:12	06/14/12 14:38	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48		ug/L			06/18/12 13:39	1

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-4843-1

## Client Sample ID: MW-9

Lab Sample ID: 450-4843-7

Date Collected: 06/08/12 12:14

Matrix: Water

Date Received: 06/11/12 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	37		2.0		ug/L			06/12/12 06:21	1
1,2-Dichloroethane	ND		1.0		ug/L			06/12/12 06:21	1
1,3,5-Trimethylbenzene	7.4		2.0		ug/L			06/12/12 06:21	1
Benzene	150		1.0		ug/L			06/12/12 06:21	1
Ethylbenzene	44		2.0		ug/L			06/12/12 06:21	1
Isopropylbenzene	19		2.0		ug/L			06/12/12 06:21	1
Naphthalene	41		8.0		ug/L			06/12/12 16:42	1
Toluene	9.0		2.0		ug/L			06/12/12 06:21	1
Xylenes, Total	62		6.0		ug/L			06/12/12 06:21	1
Methyl tert-butyl ether	13		2.0		ug/L			06/12/12 06:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		91 - 114		06/12/12 06:21	1
Dibromofluoromethane (Surr)	95		91 - 114		06/12/12 16:42	1
1,2-Dichloroethane-d4 (Surr)	104		85 - 125		06/12/12 06:21	1
1,2-Dichloroethane-d4 (Surr)	101		85 - 125		06/12/12 16:42	1
Toluene-d8 (Surr)	101		84 - 111		06/12/12 06:21	1
Toluene-d8 (Surr)	99		84 - 111		06/12/12 16:42	1
4-Bromofluorobenzene (Surr)	101		86 - 120		06/12/12 06:21	1
4-Bromofluorobenzene (Surr)	104		86 - 120		06/12/12 16:42	1

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.038		ug/L		06/13/12 10:12	06/14/12 14:58	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48		ug/L			06/18/12 13:44	1

## Client Sample ID: MW-10

Lab Sample ID: 450-4843-8

Date Collected: 06/08/12 11:49

Matrix: Water

Date Received: 06/11/12 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1500		10		ug/L			06/12/12 06:50	5
1,2-Dichloroethane	ND		5.0		ug/L			06/12/12 06:50	5
1,3,5-Trimethylbenzene	350		10		ug/L			06/12/12 06:50	5
Benzene	1700		5.0		ug/L			06/12/12 06:50	5
Ethylbenzene	840		10		ug/L			06/12/12 06:50	5
Isopropylbenzene	93		10		ug/L			06/12/12 06:50	5
Naphthalene	270		8.0		ug/L			06/12/12 17:10	1
Toluene	350		10		ug/L			06/12/12 06:50	5
Xylenes, Total	2000		30		ug/L			06/12/12 06:50	5
Methyl tert-butyl ether	100		10		ug/L			06/12/12 06:50	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	95		91 - 114		06/12/12 06:50	5
Dibromofluoromethane (Surr)	92		91 - 114		06/12/12 17:10	1
1,2-Dichloroethane-d4 (Surr)	102		85 - 125		06/12/12 06:50	5
1,2-Dichloroethane-d4 (Surr)	99		85 - 125		06/12/12 17:10	1
Toluene-d8 (Surr)	101		84 - 111		06/12/12 06:50	5

# Client Sample Results

Client: Center Point Tank Service  
 Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-4843-1

**Client Sample ID: MW-10**

**Lab Sample ID: 450-4843-8**

Date Collected: 06/08/12 11:49

Matrix: Water

Date Received: 06/11/12 10:15

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		84 - 111		06/12/12 17:10	1
4-Bromofluorobenzene (Surr)	99		86 - 120		06/12/12 06:50	5
4-Bromofluorobenzene (Surr)	101		86 - 120		06/12/12 17:10	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.038		ug/L		06/13/12 10:12	06/14/12 15:17	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.88		0.48		ug/L			06/18/12 13:49	1

# Lab Chronicle

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-4843-1

## Client Sample ID: MW-1

Lab Sample ID: 450-4843-1

Date Collected: 06/08/12 10:40

Matrix: Water

Date Received: 06/11/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	12603	06/12/12 03:28	CB	TAL KOP
Total/NA	Analysis	8260B		1	12644	06/12/12 13:48	CB	TAL KOP
Total/NA	Prep	8011			12702	06/13/12 10:12	AMM	TAL KOP
Total/NA	Analysis	8011		1	12757	06/14/12 12:58	CLS	TAL KOP
Dissolved	Analysis	200.8		1	12911	06/18/12 13:09	TYH	TAL KOP

## Client Sample ID: MW-2

Lab Sample ID: 450-4843-2

Date Collected: 06/08/12 10:56

Matrix: Water

Date Received: 06/11/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	12603	06/12/12 03:57	CB	TAL KOP
Total/NA	Analysis	8260B		1	12644	06/12/12 14:17	CB	TAL KOP
Total/NA	Prep	8011			12702	06/13/12 10:12	AMM	TAL KOP
Total/NA	Analysis	8011		1	12757	06/14/12 13:18	CLS	TAL KOP
Dissolved	Analysis	200.8		1	12911	06/18/12 13:19	TYH	TAL KOP

## Client Sample ID: MW-4

Lab Sample ID: 450-4843-3

Date Collected: 06/08/12 12:40

Matrix: Water

Date Received: 06/11/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	12603	06/12/12 04:26	CB	TAL KOP
Total/NA	Analysis	8260B		1	12644	06/12/12 14:46	CB	TAL KOP
Total/NA	Prep	8011			12702	06/13/12 10:12	AMM	TAL KOP
Total/NA	Analysis	8011		1	12757	06/14/12 13:38	CLS	TAL KOP
Dissolved	Analysis	200.8		1	12911	06/18/12 13:24	TYH	TAL KOP

## Client Sample ID: MW-5

Lab Sample ID: 450-4843-4

Date Collected: 06/08/12 11:12

Matrix: Water

Date Received: 06/11/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	12603	06/12/12 04:55	CB	TAL KOP
Total/NA	Analysis	8260B		1	12644	06/12/12 15:15	CB	TAL KOP
Total/NA	Prep	8011			12702	06/13/12 10:12	AMM	TAL KOP
Total/NA	Analysis	8011		1	12757	06/14/12 13:58	CLS	TAL KOP
Dissolved	Analysis	200.8		1	12911	06/18/12 13:29	TYH	TAL KOP

# Lab Chronicle

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-4843-1

## Client Sample ID: MW-6

Date Collected: 06/08/12 11:26

Date Received: 06/11/12 10:15

## Lab Sample ID: 450-4843-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	12603	06/12/12 05:24	CB	TAL KOP
Total/NA	Analysis	8260B		1	12644	06/12/12 15:44	CB	TAL KOP
Total/NA	Prep	8011			12702	06/13/12 10:12	AMM	TAL KOP
Total/NA	Analysis	8011		1	12757	06/14/12 14:18	CLS	TAL KOP
Dissolved	Analysis	200.8		1	12911	06/18/12 13:34	TYH	TAL KOP

## Client Sample ID: MW-8

Date Collected: 06/08/12 13:10

Date Received: 06/11/12 10:15

## Lab Sample ID: 450-4843-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	12644	06/12/12 16:13	CB	TAL KOP
Total/NA	Analysis	8260B	DL	20	12704	06/13/12 14:41	CB	TAL KOP
Total/NA	Prep	8011			12702	06/13/12 10:12	AMM	TAL KOP
Total/NA	Analysis	8011		1	12757	06/14/12 14:38	CLS	TAL KOP
Dissolved	Analysis	200.8		1	12911	06/18/12 13:39	TYH	TAL KOP

## Client Sample ID: MW-9

Date Collected: 06/08/12 12:14

Date Received: 06/11/12 10:15

## Lab Sample ID: 450-4843-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	12603	06/12/12 06:21	CB	TAL KOP
Total/NA	Analysis	8260B		1	12644	06/12/12 16:42	CB	TAL KOP
Total/NA	Prep	8011			12702	06/13/12 10:12	AMM	TAL KOP
Total/NA	Analysis	8011		1	12757	06/14/12 14:58	CLS	TAL KOP
Dissolved	Analysis	200.8		1	12911	06/18/12 13:44	TYH	TAL KOP

## Client Sample ID: MW-10

Date Collected: 06/08/12 11:49

Date Received: 06/11/12 10:15

## Lab Sample ID: 450-4843-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	12603	06/12/12 06:50	CB	TAL KOP
Total/NA	Analysis	8260B		1	12644	06/12/12 17:10	CB	TAL KOP
Total/NA	Prep	8011			12702	06/13/12 10:12	AMM	TAL KOP
Total/NA	Analysis	8011		1	12757	06/14/12 15:17	CLS	TAL KOP
Dissolved	Analysis	200.8		1	12911	06/18/12 13:49	TYH	TAL KOP

**Laboratory References:**

TAL KOP = TestAmerica King of Prussia, 1008 W Ninth Ave, King of Prussia, PA 19406, TEL (610)337-9992

# Certification Summary

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-4843-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica King of Prussia	New Jersey	NELAC	2	PA004
TestAmerica King of Prussia	Pennsylvania	NELAC	3	46-00505
TestAmerica King of Prussia	USDA	Federal		P330-10-00327

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY REPORT

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

6/19/2012

Client: CenterPoint Tank Services Bill To: Sony TAT: 5 DAY  STD.  4 DAY  3 DAY  2 DAY  1 DAY  -24 HRS.  
 Address: 536 E. Benjamin Franklin Hwy Address: \_\_\_\_\_  
DuBoisville PA 19518 Terms: Net 30 days  
 Report to: Rachel Burkert Phone #: (610) 337-4977 State & Program: PA/ST Phone #: \_\_\_\_\_  
 E-mail: rachel@centerpointtank.com Fax #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project Name: Liberty 0.1 #38 Project #/PO#: 08-12-4292  NO  YES  
 Deliverable Package:  ambient  ice  Temp. Upon Receipt: 45°C

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	Preservative Used							TOTAL # OF BOTTLES	SAMPLES FIELD FILTERED		ANALYSIS TYPE	SAMPLE CONTROL	LABORATORY ID NUMBER
				MeOH	DI	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	NONE		YES	NO			

1 MW-1	6/11/12	1040	GW							32	1	0	X	X		450-4843-1
2 MW-2		1052								32	1	0	X	X		-29
3 MW-4		1240								32	1	0	X	X		-3
4 MW-5		1112								32	1	0	X	X		-4
5 MW-6		1124								32	1	0	X	X		-5
6 MW-8		1310								32	1	0	X	X		-6
7 MW-9		1214								32	1	0	X	X		-7
8 MW-10		1149								32	1	0	X	X		-8
9																
10																

RELINQUISHED DATE: 6/11/12 TIME: 10:5 RECEIVED DATE: 6/11/12 TIME: 10:10  
 RELINQUISHED DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ RECEIVED DATE: \_\_\_\_\_ TIME: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Center Point Tank Service

Job Number: 450-4843-1

**Login Number: 4843**

**List Number: 1**

**Creator: Visconti, Caitlyn A**

**List Source: TestAmerica King of Prussia**

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.	True	
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.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica King of Prussia  
1008 W Ninth Ave  
King of Prussia, PA 19406  
Tel: (610)337-9992

TestAmerica Job ID: 450-6519-1  
Client Project/Site: Liberty Oil #38

For:  
Center Point Tank Service  
536 E Benjamin Franklin  
Douglassville, Pennsylvania 19518

Attn: Rachel Burkart



---

Authorized for release by:  
9/21/2012 5:31:23 PM

Ozzy Burgos  
Project Manager I  
ozzy.burgos@testamericainc.com

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-6519-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
450-6519-1	MW-1	Water	09/06/12 11:30	09/07/12 13:08
450-6519-2	MW-2	Water	09/06/12 11:49	09/07/12 13:08
450-6519-3	MW-4	Water	09/06/12 13:11	09/07/12 13:08
450-6519-4	MW-5	Water	09/06/12 10:57	09/07/12 13:08
450-6519-5	MW-6	Water	09/06/12 10:39	09/07/12 13:08
450-6519-6	MW-8	Water	09/06/12 13:38	09/07/12 13:08
450-6519-7	MW-9	Water	09/06/12 12:14	09/07/12 13:08
450-6519-8	MW-10	Water	09/06/12 12:39	09/07/12 13:08

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# Case Narrative

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-6519-1

**Job ID: 450-6519-1**

**Laboratory: TestAmerica King of Prussia**

## Narrative

**Job Narrative**  
450-6519-1

## Comments

No additional comments.

## Receipt

The samples were received on 9/7/2012 1:08 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3° C.

## GC/MS VOA

Method(s) 8260B: Surrogate recovery was outside control limits for the following sample: MW-5 (450-6519-4). Dibromofluoromethane has a lower recovery limit of 91%. The samples had a recovery of 90%. Data is not impacted by the low surrogate recovery.

Method(s) 8260B: Surrogate recovery was outside control limits for the following sample: MW-4 (450-6519-3). Dibromofluoromethane had a low surrogate recovery. The analytes being reported are not associated with this surrogate; therefore, data is not impacted.

Method(s) 8260B: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: MW-4 (450-6519-3). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: MW-10 (450-6519-8), MW-8 (450-6519-6). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

## GC Semi VOA

No analytical or quality issues were noted.

## Metals

No analytical or quality issues were noted.

## Field Service / Mobile Lab

No analytical or quality issues were noted.

# Definitions/Glossary

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-6519-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

## 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)

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-6519-1

**Client Sample ID: MW-1**

**Lab Sample ID: 450-6519-1**

**Date Collected: 09/06/12 11:30**

**Matrix: Water**

**Date Received: 09/07/12 13:08**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			09/10/12 16:51	1
1,2-Dichloroethane	ND		1.0		ug/L			09/10/12 16:51	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			09/10/12 16:51	1
Benzene	ND		1.0		ug/L			09/10/12 16:51	1
Ethylbenzene	ND		2.0		ug/L			09/10/12 16:51	1
Isopropylbenzene	ND		2.0		ug/L			09/10/12 16:51	1
Naphthalene	ND		8.0		ug/L			09/10/12 16:51	1
Toluene	ND		2.0		ug/L			09/10/12 16:51	1
Xylenes, Total	ND		6.0		ug/L			09/10/12 16:51	1
Methyl tert-butyl ether	ND		2.0		ug/L			09/10/12 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	91		91 - 114		09/10/12 16:51	1
1,2-Dichloroethane-d4 (Surr)	90		85 - 125		09/10/12 16:51	1
Toluene-d8 (Surr)	98		84 - 111		09/10/12 16:51	1
4-Bromofluorobenzene (Surr)	106		86 - 120		09/10/12 16:51	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.020		ug/L		09/13/12 12:00	09/13/12 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	89		60 - 140	09/13/12 12:00	09/13/12 16:33	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		ug/L		09/12/12 23:12	09/13/12 04:34	5

**Client Sample ID: MW-2**

**Lab Sample ID: 450-6519-2**

**Date Collected: 09/06/12 11:49**

**Matrix: Water**

**Date Received: 09/07/12 13:08**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			09/10/12 17:21	1
1,2-Dichloroethane	ND		1.0		ug/L			09/10/12 17:21	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			09/10/12 17:21	1
Benzene	ND		1.0		ug/L			09/10/12 17:21	1
Ethylbenzene	ND		2.0		ug/L			09/10/12 17:21	1
Isopropylbenzene	ND		2.0		ug/L			09/10/12 17:21	1
Naphthalene	ND		8.0		ug/L			09/10/12 17:21	1
Toluene	ND		2.0		ug/L			09/10/12 17:21	1
Xylenes, Total	ND		6.0		ug/L			09/10/12 17:21	1
Methyl tert-butyl ether	ND		2.0		ug/L			09/10/12 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	92		91 - 114		09/10/12 17:21	1
1,2-Dichloroethane-d4 (Surr)	89		85 - 125		09/10/12 17:21	1
Toluene-d8 (Surr)	98		84 - 111		09/10/12 17:21	1
4-Bromofluorobenzene (Surr)	109		86 - 120		09/10/12 17:21	1

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-6519-1

## Client Sample ID: MW-2

Lab Sample ID: 450-6519-2

Date Collected: 09/06/12 11:49

Matrix: Water

Date Received: 09/07/12 13:08

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.020		ug/L		09/13/12 12:00	09/13/12 17:04	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1,1,2-Tetrachloroethane	94		60 - 140				09/13/12 12:00	09/13/12 17:04	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		ug/L		09/12/12 23:12	09/13/12 04:45	5

## Client Sample ID: MW-4

Lab Sample ID: 450-6519-3

Date Collected: 09/06/12 13:11

Matrix: Water

Date Received: 09/07/12 13:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0		ug/L			09/10/12 17:52	1
1,3,5-Trimethylbenzene	130		2.0		ug/L			09/10/12 17:52	1
Benzene	340		1.0		ug/L			09/10/12 17:52	1
Ethylbenzene	300		2.0		ug/L			09/10/12 17:52	1
Isopropylbenzene	41		2.0		ug/L			09/10/12 17:52	1
Naphthalene	120		8.0		ug/L			09/10/12 17:52	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Dibromofluoromethane (Surr)	88	X	91 - 114					09/10/12 17:52	1
1,2-Dichloroethane-d4 (Surr)	87		85 - 125					09/10/12 17:52	1
Toluene-d8 (Surr)	95		84 - 111					09/10/12 17:52	1
4-Bromofluorobenzene (Surr)	97		86 - 120					09/10/12 17:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	410		40		ug/L			09/11/12 14:17	20
Toluene	430		40		ug/L			09/11/12 14:17	20
Xylenes, Total	1000		120		ug/L			09/11/12 14:17	20
Methyl tert-butyl ether	92		40		ug/L			09/11/12 14:17	20
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Dibromofluoromethane (Surr)	103		91 - 114					09/11/12 14:17	20
1,2-Dichloroethane-d4 (Surr)	105		85 - 125					09/11/12 14:17	20
Toluene-d8 (Surr)	93		84 - 111					09/11/12 14:17	20
4-Bromofluorobenzene (Surr)	98		86 - 120					09/11/12 14:17	20

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.020		ug/L		09/13/12 12:00	09/13/12 17:35	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1,1,2-Tetrachloroethane	90		60 - 140				09/13/12 12:00	09/13/12 17:35	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		ug/L		09/12/12 23:12	09/13/12 04:50	5

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-6519-1

**Client Sample ID: MW-5**

**Lab Sample ID: 450-6519-4**

Date Collected: 09/06/12 10:57

Matrix: Water

Date Received: 09/07/12 13:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			09/11/12 13:48	1
1,2-Dichloroethane	ND		1.0		ug/L			09/11/12 13:48	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			09/11/12 13:48	1
Benzene	ND		1.0		ug/L			09/11/12 13:48	1
Ethylbenzene	ND		2.0		ug/L			09/11/12 13:48	1
Isopropylbenzene	ND		2.0		ug/L			09/11/12 13:48	1
Naphthalene	ND		8.0		ug/L			09/11/12 13:48	1
Toluene	ND		2.0		ug/L			09/11/12 13:48	1
Xylenes, Total	ND		6.0		ug/L			09/11/12 13:48	1
Methyl tert-butyl ether	ND		2.0		ug/L			09/11/12 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		91 - 114					09/11/12 13:48	1
1,2-Dichloroethane-d4 (Surr)	104		85 - 125					09/11/12 13:48	1
Toluene-d8 (Surr)	92		84 - 111					09/11/12 13:48	1
4-Bromofluorobenzene (Surr)	99		86 - 120					09/11/12 13:48	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.020		ug/L		09/13/12 12:00	09/13/12 18:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	95		60 - 140				09/13/12 12:00	09/13/12 18:06	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		ug/L		09/12/12 23:12	09/13/12 04:56	5

**Client Sample ID: MW-6**

**Lab Sample ID: 450-6519-5**

Date Collected: 09/06/12 10:39

Matrix: Water

Date Received: 09/07/12 13:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			09/10/12 18:52	1
1,2-Dichloroethane	ND		1.0		ug/L			09/10/12 18:52	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			09/10/12 18:52	1
Benzene	ND		1.0		ug/L			09/10/12 18:52	1
Ethylbenzene	ND		2.0		ug/L			09/10/12 18:52	1
Isopropylbenzene	ND		2.0		ug/L			09/10/12 18:52	1
Naphthalene	ND		8.0		ug/L			09/10/12 18:52	1
Toluene	ND		2.0		ug/L			09/10/12 18:52	1
Xylenes, Total	ND		6.0		ug/L			09/10/12 18:52	1
Methyl tert-butyl ether	ND		2.0		ug/L			09/10/12 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	91		91 - 114					09/10/12 18:52	1
1,2-Dichloroethane-d4 (Surr)	88		85 - 125					09/10/12 18:52	1
Toluene-d8 (Surr)	100		84 - 111					09/10/12 18:52	1
4-Bromofluorobenzene (Surr)	107		86 - 120					09/10/12 18:52	1

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-6519-1

## Client Sample ID: MW-6

Lab Sample ID: 450-6519-5

Date Collected: 09/06/12 10:39

Matrix: Water

Date Received: 09/07/12 13:08

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.020		ug/L		09/13/12 12:00	09/13/12 18:37	1
<b>Surrogate</b>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	91		60 - 140				09/13/12 12:00	09/13/12 18:37	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	16		1.5		ug/L		09/12/12 23:12	09/13/12 05:01	5

## Client Sample ID: MW-8

Lab Sample ID: 450-6519-6

Date Collected: 09/06/12 13:38

Matrix: Water

Date Received: 09/07/12 13:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0		ug/L			09/11/12 20:36	1
1,3,5-Trimethylbenzene	270		2.0		ug/L			09/11/12 20:36	1
Benzene	350		1.0		ug/L			09/11/12 20:36	1
Ethylbenzene	450		2.0		ug/L			09/11/12 20:36	1
Isopropylbenzene	59		2.0		ug/L			09/11/12 20:36	1
Naphthalene	130		8.0		ug/L			09/11/12 20:36	1
Toluene	150		2.0		ug/L			09/11/12 20:36	1
Methyl tert-butyl ether	12		2.0		ug/L			09/11/12 20:36	1
<b>Surrogate</b>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	94		91 - 114					09/11/12 20:36	1
1,2-Dichloroethane-d4 (Surr)	99		85 - 125					09/11/12 20:36	1
Toluene-d8 (Surr)	91		84 - 111					09/11/12 20:36	1
4-Bromofluorobenzene (Surr)	98		86 - 120					09/11/12 20:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	790		40		ug/L			09/13/12 11:42	20
Xylenes, Total	1100		120		ug/L			09/13/12 11:42	20
<b>Surrogate</b>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	93		91 - 114					09/13/12 11:42	20
1,2-Dichloroethane-d4 (Surr)	101		85 - 125					09/13/12 11:42	20
Toluene-d8 (Surr)	100		84 - 111					09/13/12 11:42	20
4-Bromofluorobenzene (Surr)	104		86 - 120					09/13/12 11:42	20

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.020		ug/L		09/13/12 12:00	09/13/12 19:08	1
<b>Surrogate</b>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	92		60 - 140				09/13/12 12:00	09/13/12 19:08	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		ug/L		09/12/12 23:12	09/13/12 05:17	5

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-6519-1

## Client Sample ID: MW-9

Lab Sample ID: 450-6519-7

Date Collected: 09/06/12 12:14

Matrix: Water

Date Received: 09/07/12 13:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			09/13/12 12:42	1
1,2-Dichloroethane	ND		1.0		ug/L			09/13/12 12:42	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			09/13/12 12:42	1
<b>Benzene</b>	<b>14</b>		1.0		ug/L			09/13/12 12:42	1
<b>Ethylbenzene</b>	<b>4.1</b>		2.0		ug/L			09/13/12 12:42	1
<b>Isopropylbenzene</b>	<b>8.1</b>		2.0		ug/L			09/13/12 12:42	1
Naphthalene	ND		8.0		ug/L			09/13/12 12:42	1
Toluene	ND		2.0		ug/L			09/13/12 12:42	1
Xylenes, Total	ND		6.0		ug/L			09/13/12 12:42	1
Methyl tert-butyl ether	ND		2.0		ug/L			09/13/12 12:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	93		91 - 114					09/13/12 12:42	1
1,2-Dichloroethane-d4 (Surr)	100		85 - 125					09/13/12 12:42	1
Toluene-d8 (Surr)	96		84 - 111					09/13/12 12:42	1
4-Bromofluorobenzene (Surr)	104		86 - 120					09/13/12 12:42	1

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.020		ug/L		09/13/12 12:00	09/13/12 19:38	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,1,1,2-Tetrachloroethane	91		60 - 140				09/13/12 12:00	09/13/12 19:38	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		ug/L		09/12/12 23:12	09/13/12 05:22	5

## Client Sample ID: MW-10

Lab Sample ID: 450-6519-8

Date Collected: 09/06/12 12:39

Matrix: Water

Date Received: 09/07/12 13:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,2,4-Trimethylbenzene</b>	<b>1700</b>		40		ug/L			09/13/12 12:12	20
1,2-Dichloroethane	ND		20		ug/L			09/13/12 12:12	20
<b>1,3,5-Trimethylbenzene</b>	<b>430</b>		40		ug/L			09/13/12 12:12	20
<b>Benzene</b>	<b>4800</b>		20		ug/L			09/13/12 12:12	20
<b>Ethylbenzene</b>	<b>1500</b>		40		ug/L			09/13/12 12:12	20
<b>Isopropylbenzene</b>	<b>140</b>		40		ug/L			09/13/12 12:12	20
Naphthalene	300		160		ug/L			09/13/12 12:12	20
Toluene	1200		40		ug/L			09/13/12 12:12	20
Xylenes, Total	4100		120		ug/L			09/13/12 12:12	20
Methyl tert-butyl ether	230		40		ug/L			09/13/12 12:12	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	94		91 - 114					09/13/12 12:12	20
1,2-Dichloroethane-d4 (Surr)	102		85 - 125					09/13/12 12:12	20
Toluene-d8 (Surr)	103		84 - 111					09/13/12 12:12	20
4-Bromofluorobenzene (Surr)	102		86 - 120					09/13/12 12:12	20

# Client Sample Results

Client: Center Point Tank Service  
 Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-6519-1

**Client Sample ID: MW-10**

**Lab Sample ID: 450-6519-8**

Date Collected: 09/06/12 12:39

Matrix: Water

Date Received: 09/07/12 13:08

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.020		ug/L		09/13/12 12:00	09/13/12 20:09	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1,1,2-Tetrachloroethane	89		60 - 140				09/13/12 12:00	09/13/12 20:09	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		ug/L		09/12/12 23:12	09/13/12 05:27	5



# Lab Chronicle

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-6519-1

## Client Sample ID: MW-1

Date Collected: 09/06/12 11:30

Date Received: 09/07/12 13:08

## Lab Sample ID: 450-6519-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	16078	09/10/12 16:51	MSL	TAL KOP
Total/NA	Prep	8011			48259	09/13/12 12:00	JDD	TAL PIT
Total/NA	Analysis	8011		1	48785	09/13/12 16:33	JDD	TAL PIT
Dissolved	Prep	200.8			127617	09/12/12 23:12	VD	TAL EDI
Dissolved	Analysis	200.8		5	127696	09/13/12 04:34	VD	TAL EDI

## Client Sample ID: MW-2

Date Collected: 09/06/12 11:49

Date Received: 09/07/12 13:08

## Lab Sample ID: 450-6519-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	16078	09/10/12 17:21	MSL	TAL KOP
Total/NA	Prep	8011			48259	09/13/12 12:00	JDD	TAL PIT
Total/NA	Analysis	8011		1	48785	09/13/12 17:04	JDD	TAL PIT
Dissolved	Prep	200.8			127617	09/12/12 23:12	VD	TAL EDI
Dissolved	Analysis	200.8		5	127696	09/13/12 04:45	VD	TAL EDI

## Client Sample ID: MW-4

Date Collected: 09/06/12 13:11

Date Received: 09/07/12 13:08

## Lab Sample ID: 450-6519-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	16078	09/10/12 17:52	MSL	TAL KOP
Total/NA	Analysis	8260B	DL	20	16116	09/11/12 14:17	MSL	TAL KOP
Total/NA	Prep	8011			48259	09/13/12 12:00	JDD	TAL PIT
Total/NA	Analysis	8011		1	48785	09/13/12 17:35	JDD	TAL PIT
Dissolved	Prep	200.8			127617	09/12/12 23:12	VD	TAL EDI
Dissolved	Analysis	200.8		5	127696	09/13/12 04:50	VD	TAL EDI

## Client Sample ID: MW-5

Date Collected: 09/06/12 10:57

Date Received: 09/07/12 13:08

## Lab Sample ID: 450-6519-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	16116	09/11/12 13:48	MSL	TAL KOP
Total/NA	Prep	8011			48259	09/13/12 12:00	JDD	TAL PIT
Total/NA	Analysis	8011		1	48785	09/13/12 18:06	JDD	TAL PIT
Dissolved	Prep	200.8			127617	09/12/12 23:12	VD	TAL EDI
Dissolved	Analysis	200.8		5	127696	09/13/12 04:56	VD	TAL EDI

# Lab Chronicle

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-6519-1

## Client Sample ID: MW-6

Date Collected: 09/06/12 10:39

Date Received: 09/07/12 13:08

## Lab Sample ID: 450-6519-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	16078	09/10/12 18:52	MSL	TAL KOP
Total/NA	Prep	8011			48259	09/13/12 12:00	JDD	TAL PIT
Total/NA	Analysis	8011		1	48785	09/13/12 18:37	JDD	TAL PIT
Dissolved	Prep	200.8			127617	09/12/12 23:12	VD	TAL EDI
Dissolved	Analysis	200.8		5	127696	09/13/12 05:01	VD	TAL EDI

## Client Sample ID: MW-8

Date Collected: 09/06/12 13:38

Date Received: 09/07/12 13:08

## Lab Sample ID: 450-6519-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	16116	09/11/12 20:36	MSL	TAL KOP
Total/NA	Analysis	8260B	DL	20	16192	09/13/12 11:42	MSL	TAL KOP
Total/NA	Prep	8011			48259	09/13/12 12:00	JDD	TAL PIT
Total/NA	Analysis	8011		1	48785	09/13/12 19:08	JDD	TAL PIT
Dissolved	Prep	200.8			127617	09/12/12 23:12	VD	TAL EDI
Dissolved	Analysis	200.8		5	127696	09/13/12 05:17	VD	TAL EDI

## Client Sample ID: MW-9

Date Collected: 09/06/12 12:14

Date Received: 09/07/12 13:08

## Lab Sample ID: 450-6519-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	16192	09/13/12 12:42	MSL	TAL KOP
Total/NA	Prep	8011			48259	09/13/12 12:00	JDD	TAL PIT
Total/NA	Analysis	8011		1	48785	09/13/12 19:38	JDD	TAL PIT
Dissolved	Prep	200.8			127617	09/12/12 23:12	VD	TAL EDI
Dissolved	Analysis	200.8		5	127696	09/13/12 05:22	VD	TAL EDI

## Client Sample ID: MW-10

Date Collected: 09/06/12 12:39

Date Received: 09/07/12 13:08

## Lab Sample ID: 450-6519-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	16192	09/13/12 12:12	MSL	TAL KOP
Total/NA	Prep	8011			48259	09/13/12 12:00	JDD	TAL PIT
Total/NA	Analysis	8011		1	48785	09/13/12 20:09	JDD	TAL PIT
Dissolved	Prep	200.8			127617	09/12/12 23:12	VD	TAL EDI
Dissolved	Analysis	200.8		5	127696	09/13/12 05:27	VD	TAL EDI

### Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL KOP = TestAmerica King of Prussia, 1008 W Ninth Ave, King of Prussia, PA 19406, TEL (610)337-9992

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Certification Summary

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-6519-1

## Laboratory: TestAmerica King of Prussia

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New Jersey	NELAC	2	PA004	06-30-13
Pennsylvania	NELAC	3	46-00505	06-30-13
USDA	Federal		P330-10-00327	09-21-13

## Laboratory: TestAmerica Edison

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-12
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	04-30-13
New Jersey	NELAC	2	12028	06-30-13
New York	NELAC	2	11452	04-01-13
Pennsylvania	NELAC	3	68-00522	02-28-13
Rhode Island	State Program	1	LAO00132	12-30-12
USDA	Federal		NJCA-003-08	03-11-14

## Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-13
California	NELAC	9	4224CA	03-31-13
Connecticut	State Program	1	PH-0688	09-30-12
Florida	NELAC	4	E871008	06-30-13
Illinois	NELAC	5	002602	06-30-13
Kansas	NELAC	7	E-10350	01-31-13
L-A-B	DoD ELAP		L2314	02-24-13
Louisiana	NELAC	6	04041	06-30-13
New Hampshire	NELAC	1	203011	04-04-13
New Jersey	NELAC	2	PA005	06-30-13
New York	NELAC	2	11182	04-01-13
North Carolina DENR	State Program	4	434	12-31-12
Pennsylvania	NELAC	3	02-00416	04-30-13
South Carolina	State Program	4	89014	04-30-13
USDA	Federal		P-Soil-01	04-16-15
USDA	Federal		P330-10-00139	04-28-13
Utah	NELAC	8	STLP	04-30-13
Virginia	NELAC	3	460189	09-14-13
West Virginia DEP	State Program	3	142	01-31-13
Wisconsin	State Program	5	998027800	08-31-13



## Login Sample Receipt Checklist

Client: Center Point Tank Service

Job Number: 450-6519-1

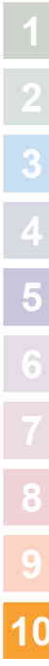
**Login Number: 6519**

**List Number: 1**

**Creator: Malandra, Ryan**

**List Source: TestAmerica King of Prussia**

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.	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	
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.	N/A	



## Login Sample Receipt Checklist

Client: Center Point Tank Service

Job Number: 450-6519-1

Login Number: 6519

List Source: TestAmerica Edison

List Number: 1

List Creation: 09/08/12 12:16 PM

Creator: Martinez, Victor

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

## Login Sample Receipt Checklist

Client: Center Point Tank Service

Job Number: 450-6519-1

**Login Number: 6519**  
**List Number: 1**  
**Creator: Watson, Debbie**

**List Source: TestAmerica Pittsburgh**  
**List Creation: 09/08/12 01:12 PM**

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.	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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica King of Prussia  
1008 W Ninth Ave  
King of Prussia, PA 19406  
Tel: (610)337-9992

TestAmerica Job ID: 450-8142-1  
Client Project/Site: Liberty Oil #38

For:  
Center Point Tank Service  
536 E Benjamin Franklin  
Douglassville, Pennsylvania 19518

Attn: Rachel Burkart



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Authorized for release by:  
12/14/2012 9:30:00 AM

Ozzy Burgos  
Project Manager I  
ozzy.burgos@testamericainc.com

### LINKS

Review your project  
results through  
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Have a Question?



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[www.testamericainc.com](http://www.testamericainc.com)

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*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: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-8142-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
450-8142-1	MW-1	Water	12/05/12 11:05	12/06/12 11:08
450-8142-2	MW-2	Water	12/05/12 10:29	12/06/12 11:08
450-8142-3	MW-4	Water	12/05/12 12:35	12/06/12 11:08
450-8142-4	MW-5	Water	12/05/12 10:05	12/06/12 11:08
450-8142-5	MW-6	Water	12/05/12 09:46	12/06/12 11:08
450-8142-6	MW-9	Water	12/05/12 11:39	12/06/12 11:08
450-8142-7	MW-10	Water	12/05/12 12:05	12/06/12 11:08



# Case Narrative

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-8142-1

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## Job ID: 450-8142-1

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Laboratory: TestAmerica King of Prussia

### Narrative

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Job Narrative  
450-8142-1

### Comments

No additional comments.

### Receipt

The samples were received on 12/6/2012 11:08 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1° C.

### GC/MS VOA

Method(s) 8260B: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: MW-10 (450-8142-7), MW-4 (450-8142-3). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

### GC Semi VOA

No analytical or quality issues were noted.

### Metals

No analytical or quality issues were noted.

### Field Service / Mobile Lab

No analytical or quality issues were noted.



## Definitions/Glossary

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-8142-1

### 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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
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
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)

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-8142-1

**Client Sample ID: MW-1**

**Lab Sample ID: 450-8142-1**

Date Collected: 12/05/12 11:05

Matrix: Water

Date Received: 12/06/12 11:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			12/07/12 13:29	1
1,2-Dichloroethane	ND		1.0		ug/L			12/07/12 13:29	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			12/07/12 13:29	1
Benzene	ND		1.0		ug/L			12/07/12 13:29	1
Ethylbenzene	ND		2.0		ug/L			12/07/12 13:29	1
Isopropylbenzene	ND		2.0		ug/L			12/07/12 13:29	1
Naphthalene	ND		8.0		ug/L			12/07/12 13:29	1
Toluene	ND		2.0		ug/L			12/07/12 13:29	1
Xylenes, Total	ND		6.0		ug/L			12/07/12 13:29	1
Methyl tert-butyl ether	ND		2.0		ug/L			12/07/12 13:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		91 - 114					12/07/12 13:29	1
1,2-Dichloroethane-d4 (Surr)	93		85 - 125					12/07/12 13:29	1
Toluene-d8 (Surr)	99		84 - 111					12/07/12 13:29	1
4-Bromofluorobenzene (Surr)	94		86 - 120					12/07/12 13:29	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020		ug/L		12/10/12 10:26	12/10/12 18:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	90		60 - 140				12/10/12 10:26	12/10/12 18:57	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		ug/L		12/08/12 21:48	12/09/12 02:29	5

**Client Sample ID: MW-2**

**Lab Sample ID: 450-8142-2**

Date Collected: 12/05/12 10:29

Matrix: Water

Date Received: 12/06/12 11:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			12/07/12 13:58	1
1,2-Dichloroethane	ND		1.0		ug/L			12/07/12 13:58	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			12/07/12 13:58	1
Benzene	ND		1.0		ug/L			12/07/12 13:58	1
Ethylbenzene	ND		2.0		ug/L			12/07/12 13:58	1
Isopropylbenzene	ND		2.0		ug/L			12/07/12 13:58	1
Naphthalene	ND		8.0		ug/L			12/07/12 13:58	1
Toluene	ND		2.0		ug/L			12/07/12 13:58	1
Xylenes, Total	ND		6.0		ug/L			12/07/12 13:58	1
Methyl tert-butyl ether	ND		2.0		ug/L			12/07/12 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		91 - 114					12/07/12 13:58	1
1,2-Dichloroethane-d4 (Surr)	93		85 - 125					12/07/12 13:58	1
Toluene-d8 (Surr)	98		84 - 111					12/07/12 13:58	1
4-Bromofluorobenzene (Surr)	93		86 - 120					12/07/12 13:58	1

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# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-8142-1

## Client Sample ID: MW-2

Lab Sample ID: 450-8142-2

Date Collected: 12/05/12 10:29

Matrix: Water

Date Received: 12/06/12 11:08

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020		ug/L		12/10/12 10:26	12/10/12 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	90		60 - 140				12/10/12 10:26	12/10/12 19:27	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		ug/L		12/08/12 21:48	12/09/12 02:37	5

## Client Sample ID: MW-4

Lab Sample ID: 450-8142-3

Date Collected: 12/05/12 12:35

Matrix: Water

Date Received: 12/06/12 11:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	340		2.0		ug/L			12/07/12 14:26	1
1,2-Dichloroethane	ND		1.0		ug/L			12/07/12 14:26	1
1,3,5-Trimethylbenzene	110		2.0		ug/L			12/07/12 14:26	1
Benzene	500		1.0		ug/L			12/07/12 14:26	1
Isopropylbenzene	31		2.0		ug/L			12/07/12 14:26	1
Naphthalene	77		8.0		ug/L			12/07/12 14:26	1
Toluene	320		2.0		ug/L			12/07/12 14:26	1
Methyl tert-butyl ether	140		2.0		ug/L			12/07/12 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		91 - 114					12/07/12 14:26	1
1,2-Dichloroethane-d4 (Surr)	98		85 - 125					12/07/12 14:26	1
Toluene-d8 (Surr)	98		84 - 111					12/07/12 14:26	1
4-Bromofluorobenzene (Surr)	99		86 - 120					12/07/12 14:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	360		20		ug/L			12/10/12 13:30	10
Xylenes, Total	950		60		ug/L			12/10/12 13:30	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		91 - 114					12/10/12 13:30	10
1,2-Dichloroethane-d4 (Surr)	95		85 - 125					12/10/12 13:30	10
Toluene-d8 (Surr)	98		84 - 111					12/10/12 13:30	10
4-Bromofluorobenzene (Surr)	97		86 - 120					12/10/12 13:30	10

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020		ug/L		12/10/12 10:26	12/10/12 19:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	81		60 - 140				12/10/12 10:26	12/10/12 19:57	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		ug/L		12/08/12 21:48	12/09/12 02:41	5

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# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-8142-1

## Client Sample ID: MW-5

Lab Sample ID: 450-8142-4

Date Collected: 12/05/12 10:05

Matrix: Water

Date Received: 12/06/12 11:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			12/07/12 14:54	1
1,2-Dichloroethane	ND		1.0		ug/L			12/07/12 14:54	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			12/07/12 14:54	1
Benzene	ND		1.0		ug/L			12/07/12 14:54	1
Ethylbenzene	ND		2.0		ug/L			12/07/12 14:54	1
Isopropylbenzene	ND		2.0		ug/L			12/07/12 14:54	1
Naphthalene	ND		8.0		ug/L			12/07/12 14:54	1
Toluene	ND		2.0		ug/L			12/07/12 14:54	1
Xylenes, Total	ND		6.0		ug/L			12/07/12 14:54	1
Methyl tert-butyl ether	ND		2.0		ug/L			12/07/12 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		91 - 114					12/07/12 14:54	1
1,2-Dichloroethane-d4 (Surr)	96		85 - 125					12/07/12 14:54	1
Toluene-d8 (Surr)	98		84 - 111					12/07/12 14:54	1
4-Bromofluorobenzene (Surr)	95		86 - 120					12/07/12 14:54	1

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020		ug/L		12/10/12 10:26	12/10/12 20:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	93		60 - 140				12/10/12 10:26	12/10/12 20:28	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		ug/L		12/08/12 21:48	12/09/12 02:45	5

## Client Sample ID: MW-6

Lab Sample ID: 450-8142-5

Date Collected: 12/05/12 09:46

Matrix: Water

Date Received: 12/06/12 11:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			12/07/12 15:23	1
1,2-Dichloroethane	ND		1.0		ug/L			12/07/12 15:23	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			12/07/12 15:23	1
Benzene	ND		1.0		ug/L			12/07/12 15:23	1
Ethylbenzene	ND		2.0		ug/L			12/07/12 15:23	1
Isopropylbenzene	ND		2.0		ug/L			12/07/12 15:23	1
Naphthalene	ND		8.0		ug/L			12/07/12 15:23	1
Toluene	ND		2.0		ug/L			12/07/12 15:23	1
Xylenes, Total	ND		6.0		ug/L			12/07/12 15:23	1
Methyl tert-butyl ether	ND		2.0		ug/L			12/07/12 15:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		91 - 114					12/07/12 15:23	1
1,2-Dichloroethane-d4 (Surr)	96		85 - 125					12/07/12 15:23	1
Toluene-d8 (Surr)	98		84 - 111					12/07/12 15:23	1
4-Bromofluorobenzene (Surr)	97		86 - 120					12/07/12 15:23	1

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# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-8142-1

## Client Sample ID: MW-6

Lab Sample ID: 450-8142-5

Date Collected: 12/05/12 09:46

Matrix: Water

Date Received: 12/06/12 11:08

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020		ug/L		12/10/12 10:26	12/10/12 20:58	1
<b>Surrogate</b>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	91		60 - 140				12/10/12 10:26	12/10/12 20:58	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12		1.5		ug/L		12/08/12 21:48	12/09/12 02:49	5

## Client Sample ID: MW-9

Lab Sample ID: 450-8142-6

Date Collected: 12/05/12 11:39

Matrix: Water

Date Received: 12/06/12 11:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/L			12/07/12 15:51	1
1,2-Dichloroethane	ND		1.0		ug/L			12/07/12 15:51	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			12/07/12 15:51	1
<b>Benzene</b>	<b>34</b>		1.0		ug/L			12/07/12 15:51	1
<b>Ethylbenzene</b>	<b>9.6</b>		2.0		ug/L			12/07/12 15:51	1
<b>Isopropylbenzene</b>	<b>13</b>		2.0		ug/L			12/07/12 15:51	1
Naphthalene	ND		8.0		ug/L			12/07/12 15:51	1
Toluene	ND		2.0		ug/L			12/07/12 15:51	1
Xylenes, Total	ND		6.0		ug/L			12/07/12 15:51	1
<b>Methyl tert-butyl ether</b>	<b>3.2</b>		2.0		ug/L			12/07/12 15:51	1
<b>Surrogate</b>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		91 - 114					12/07/12 15:51	1
1,2-Dichloroethane-d4 (Surr)	93		85 - 125					12/07/12 15:51	1
Toluene-d8 (Surr)	100		84 - 111					12/07/12 15:51	1
4-Bromofluorobenzene (Surr)	97		86 - 120					12/07/12 15:51	1

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020		ug/L		12/10/12 10:26	12/10/12 21:28	1
<b>Surrogate</b>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	90		60 - 140				12/10/12 10:26	12/10/12 21:28	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		ug/L		12/08/12 21:48	12/09/12 03:01	5

## Client Sample ID: MW-10

Lab Sample ID: 450-8142-7

Date Collected: 12/05/12 12:05

Matrix: Water

Date Received: 12/06/12 11:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	490		2.0		ug/L			12/07/12 16:19	1
1,2-Dichloroethane	ND		1.0		ug/L			12/07/12 16:19	1

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# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-8142-1

**Client Sample ID: MW-10**

**Lab Sample ID: 450-8142-7**

Date Collected: 12/05/12 12:05

Matrix: Water

Date Received: 12/06/12 11:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	250		2.0		ug/L			12/07/12 16:19	1
Isopropylbenzene	89		2.0		ug/L			12/07/12 16:19	1
Naphthalene	200		8.0		ug/L			12/07/12 16:19	1
Methyl tert-butyl ether	120		2.0		ug/L			12/07/12 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		91 - 114		12/07/12 16:19	1
1,2-Dichloroethane-d4 (Surr)	92		85 - 125		12/07/12 16:19	1
Toluene-d8 (Surr)	99		84 - 111		12/07/12 16:19	1
4-Bromofluorobenzene (Surr)	100		86 - 120		12/07/12 16:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2200		10		ug/L			12/10/12 13:59	10
Ethylbenzene	810		20		ug/L			12/10/12 13:59	10
Toluene	710		20		ug/L			12/10/12 13:59	10
Xylenes, Total	1900		60		ug/L			12/10/12 13:59	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		91 - 114		12/10/12 13:59	10
1,2-Dichloroethane-d4 (Surr)	96		85 - 125		12/10/12 13:59	10
Toluene-d8 (Surr)	99		84 - 111		12/10/12 13:59	10
4-Bromofluorobenzene (Surr)	97		86 - 120		12/10/12 13:59	10

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020		ug/L		12/10/12 10:26	12/10/12 21:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	84		60 - 140		12/10/12 10:26	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		ug/L		12/08/12 21:48	12/09/12 03:05	5

# Lab Chronicle

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-8142-1

## Client Sample ID: MW-1

Lab Sample ID: 450-8142-1

Date Collected: 12/05/12 11:05

Matrix: Water

Date Received: 12/06/12 11:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	18728	12/07/12 13:29	MSL	TAL KOP
Total/NA	Prep	8011			57809	12/10/12 10:26	JDD	TAL PIT
Total/NA	Analysis	8011		1	57876	12/10/12 18:57	JDD	TAL PIT
Dissolved	Prep	200.8			138843	12/08/12 21:48	VD	TAL EDI
Dissolved	Analysis	200.8		5	138845	12/09/12 02:29	VD	TAL EDI

## Client Sample ID: MW-2

Lab Sample ID: 450-8142-2

Date Collected: 12/05/12 10:29

Matrix: Water

Date Received: 12/06/12 11:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	18728	12/07/12 13:58	MSL	TAL KOP
Total/NA	Prep	8011			57809	12/10/12 10:26	JDD	TAL PIT
Total/NA	Analysis	8011		1	57876	12/10/12 19:27	JDD	TAL PIT
Dissolved	Prep	200.8			138843	12/08/12 21:48	VD	TAL EDI
Dissolved	Analysis	200.8		5	138845	12/09/12 02:37	VD	TAL EDI

## Client Sample ID: MW-4

Lab Sample ID: 450-8142-3

Date Collected: 12/05/12 12:35

Matrix: Water

Date Received: 12/06/12 11:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	18728	12/07/12 14:26	MSL	TAL KOP
Total/NA	Analysis	8260B	DL	10	18797	12/10/12 13:30	MSL	TAL KOP
Total/NA	Prep	8011			57809	12/10/12 10:26	JDD	TAL PIT
Total/NA	Analysis	8011		1	57876	12/10/12 19:57	JDD	TAL PIT
Dissolved	Prep	200.8			138843	12/08/12 21:48	VD	TAL EDI
Dissolved	Analysis	200.8		5	138845	12/09/12 02:41	VD	TAL EDI

## Client Sample ID: MW-5

Lab Sample ID: 450-8142-4

Date Collected: 12/05/12 10:05

Matrix: Water

Date Received: 12/06/12 11:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	18728	12/07/12 14:54	MSL	TAL KOP
Total/NA	Prep	8011			57809	12/10/12 10:26	JDD	TAL PIT
Total/NA	Analysis	8011		1	57876	12/10/12 20:28	JDD	TAL PIT
Dissolved	Prep	200.8			138843	12/08/12 21:48	VD	TAL EDI
Dissolved	Analysis	200.8		5	138845	12/09/12 02:45	VD	TAL EDI

# Lab Chronicle

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-8142-1

## Client Sample ID: MW-6

Date Collected: 12/05/12 09:46

Date Received: 12/06/12 11:08

## Lab Sample ID: 450-8142-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	18728	12/07/12 15:23	MSL	TAL KOP
Total/NA	Prep	8011			57809	12/10/12 10:26	JDD	TAL PIT
Total/NA	Analysis	8011		1	57876	12/10/12 20:58	JDD	TAL PIT
Dissolved	Prep	200.8			138843	12/08/12 21:48	VD	TAL EDI
Dissolved	Analysis	200.8		5	138845	12/09/12 02:49	VD	TAL EDI

## Client Sample ID: MW-9

Date Collected: 12/05/12 11:39

Date Received: 12/06/12 11:08

## Lab Sample ID: 450-8142-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	18728	12/07/12 15:51	MSL	TAL KOP
Total/NA	Prep	8011			57809	12/10/12 10:26	JDD	TAL PIT
Total/NA	Analysis	8011		1	57876	12/10/12 21:28	JDD	TAL PIT
Dissolved	Prep	200.8			138843	12/08/12 21:48	VD	TAL EDI
Dissolved	Analysis	200.8		5	138845	12/09/12 03:01	VD	TAL EDI

## Client Sample ID: MW-10

Date Collected: 12/05/12 12:05

Date Received: 12/06/12 11:08

## Lab Sample ID: 450-8142-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	18728	12/07/12 16:19	MSL	TAL KOP
Total/NA	Analysis	8260B	DL	10	18797	12/10/12 13:59	MSL	TAL KOP
Total/NA	Prep	8011			57809	12/10/12 10:26	JDD	TAL PIT
Total/NA	Analysis	8011		1	57876	12/10/12 21:58	JDD	TAL PIT
Dissolved	Prep	200.8			138843	12/08/12 21:48	VD	TAL EDI
Dissolved	Analysis	200.8		5	138845	12/09/12 03:05	VD	TAL EDI

**Laboratory References:**

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL KOP = TestAmerica King of Prussia, 1008 W Ninth Ave, King of Prussia, PA 19406, TEL (610)337-9992

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Certification Summary

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 450-8142-1

## Laboratory: TestAmerica King of Prussia

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New Jersey	NELAC	2	PA004	06-30-13
Pennsylvania	NELAC	3	46-00505	06-30-13
USDA	Federal		P330-10-00327	09-21-13

## Laboratory: TestAmerica Edison

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	04-30-13
New Jersey	NELAC	2	12028	06-30-13
New York	NELAC	2	11452	04-01-13
Pennsylvania	NELAC	3	68-00522	02-28-13
Rhode Island	State Program	1	LAO00132	12-30-12
USDA	Federal		NJCA-003-08	03-11-14

## Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-13
California	NELAC	9	4224CA	03-31-13
Connecticut	State Program	1	PH-0688	09-30-14
Florida	NELAC	4	E871008	06-30-13
Illinois	NELAC	5	002602	06-30-13
Kansas	NELAC	7	E-10350	01-31-13
L-A-B	DoD ELAP		L2314	02-24-13
Louisiana	NELAC	6	04041	06-30-13
New Hampshire	NELAC	1	203011	04-04-13
New Jersey	NELAC	2	PA005	06-30-13
New York	NELAC	2	11182	04-01-13
North Carolina DENR	State Program	4	434	12-31-12
Pennsylvania	NELAC	3	02-00416	04-30-13
South Carolina	State Program	4	89014	04-30-13
USDA	Federal		P-Soil-01	04-16-15
USDA	Federal		P330-10-00139	04-28-13
Utah	NELAC	8	STLP	04-30-13
Virginia	NELAC	3	460189	09-14-13
West Virginia DEP	State Program	3	142	01-31-13
Wisconsin	State Program	5	998027800	08-31-13

# TestAmerica

## CHAIN OF CUSTODY REPORT

THE LEADER IN ENVIRONMENTAL TESTING

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

12/14/2012

Client: <b>Center Point Tank Services</b>		Bill To: <b>Same</b>		TAX: <b>00</b>		<input checked="" type="checkbox"/> STD <input type="checkbox"/> 4 DAY <input type="checkbox"/> 3 DAY <input type="checkbox"/> 2 DAY <input type="checkbox"/> 1 DAY <input type="checkbox"/> <24 HRS.	
Address: <b>536 E. Brygown Franklin Hwy</b>		Address:		Received: <input type="checkbox"/> ice <input type="checkbox"/> ambient		DATE RESULTS NEEDED:	
<b>Duylasville PA 19578</b> Report to: <b>Robert Burkart</b> Phone #: <b>(610) 385-4477</b> State & Program: <b>PAUST</b>		Terms: Net 30 days Phone #: ( ) Fax #: ( )		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES		Temp. Upon Receipt: <b>111</b>	
Project Name: <b>Liberty Oil #38</b> Project #/PO#: <b>08-12-4292</b>		# of Bottles Preservative Used MeOH DI HCl HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaOH NONE		TOTAL # OF BOTTLES SAMPLES FIELD FILTERED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		CRACKED-BROKEN IMPROPERLY SEALED	
Sampler: <b>Robert Burkart</b> FIELD ID, LOCATION		DATE COLLECTED		TIME COLLECTED		ANALYSIS TYPE	
1 MW-1 PID:		12/12		1105		450-6142 LABORATORY ID NUMBER	
2 MW-2 PID:		1021		1005			
3 MW-4 PID:		1235		0946			
4 MW-5 PID:		1005		1139			
5 MW-6 PID:		1205		31			
6 MW-9 PID:							
7 MW-10 PID:							
8 PID:							
9 PID:							
10 PID:							
RELINQUISHED DATE TIME <b>12/6/12 11:08 AM</b>		RECEIVED DATE TIME <b>12/14/12 11:08 AM</b>		PRELINQUISHED DATE TIME <b>11/18/12</b>		RECEIVED DATE TIME <b>11/18/12</b>	
COMMENTS:		<i>Leaded gas some unlead gas</i>					

CMS

## Login Sample Receipt Checklist

Client: Center Point Tank Service

Job Number: 450-8142-1

**Login Number: 8142**

**List Number: 1**

**Creator: Visconti, Caitlyn A**

**List Source: TestAmerica King of Prussia**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Center Point Tank Service

Job Number: 450-8142-1

**Login Number: 8142**

**List Number: 1**

**Creator: Villadarez, Gerson Timothy S**

**List Source: TestAmerica Edison**

**List Creation: 12/07/12 11:34 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
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	2.4°C IR#4
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?	False	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Center Point Tank Service

Job Number: 450-8142-1

**Login Number: 8142**  
**List Number: 1**  
**Creator: Watson, Debbie**

**List Source: TestAmerica Pittsburgh**  
**List Creation: 12/07/12 10:39 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Edison  
777 New Durham Road  
Edison, NJ 08817  
Tel: (732)549-3900

TestAmerica Job ID: 460-52496-1  
Client Project/Site: Liberty Oil #38

For:  
Center Point Tank Service  
536 E Benjamin Franklin  
Douglassville, Pennsylvania 19518

Attn: Rachel Burkart



---

Authorized for release by:  
3/25/2013 3:00:24 PM

Ozzy Burgos  
Project Manager I  
ozzy.burgos@testamericainc.com

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-52496-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-52496-1	MW-1	Water	03/15/13 12:40	03/18/13 11:21
460-52496-2	MW-2	Water	03/15/13 13:00	03/18/13 11:21
460-52496-3	MW-4	Water	03/15/13 14:27	03/18/13 11:21
460-52496-4	MW-5	Water	03/15/13 12:18	03/18/13 11:21
460-52496-5	MW-6	Water	03/15/13 13:13	03/18/13 11:21
460-52496-6	MW-9	Water	03/15/13 13:40	03/18/13 11:21
460-52496-7	MW-10	Water	03/15/13 14:00	03/18/13 11:21



## Definitions/Glossary

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-52496-1

### 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
DER	Duplicate error ratio (normalized absolute difference)
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)
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)

# Case Narrative

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-52496-1

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## Job ID: 460-52496-1

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Laboratory: TestAmerica Edison

### Narrative

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Job Narrative  
460-52496-1

### Comments

No additional comments.

### Receipt

The samples were received on 3/18/2013 11:21 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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 152395 were outside control limits for Toluene. The MSD recoveries were also outside control limits for Total xylenes and Ethylbenzene. Toluene and Total xylenes were present at high concentrations in the parent sample relative to the spike amounts. The associated laboratory control sample (LCS) recoveries met acceptance criteria.

Method(s) 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-10 (460-52496-7). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 152313 were outside control limits for Isopropylbenzene. The MSD recoveries were also outside control limits for Benzene, Toluene, 1,3,5-Trimethylbenzene, and Ethylbenzene. The associated laboratory control sample (LCS) recoveries met acceptance criteria.

No other analytical or quality issues were noted.

### GC VOA

No analytical or quality issues were noted.

### Metals

No analytical or quality issues were noted.

### Field Service / Mobile Lab

No analytical or quality issues were noted.

### VOA Prep

No analytical or quality issues were noted.



# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-52496-1

**Client Sample ID: MW-1**

**Lab Sample ID: 460-52496-1**

**Date Collected: 03/15/13 12:40**

**Matrix: Water**

**Date Received: 03/18/13 11:21**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			03/23/13 00:38	1
Benzene	ND		1.0		ug/L			03/23/13 00:38	1
Ethylbenzene	ND		1.0		ug/L			03/23/13 00:38	1
Toluene	ND		1.0		ug/L			03/23/13 00:38	1
Xylenes, Total	ND		3.0		ug/L			03/23/13 00:38	1
1,2-Dichloroethane	ND		1.0		ug/L			03/23/13 00:38	1
Naphthalene	ND		1.0		ug/L			03/23/13 00:38	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			03/23/13 00:38	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			03/23/13 00:38	1
Isopropylbenzene	ND		1.0		ug/L			03/23/13 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		03/23/13 00:38	1
Bromofluorobenzene	95		70 - 130		03/23/13 00:38	1
Toluene-d8 (Surr)	98		70 - 130		03/23/13 00:38	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020		ug/L		03/19/13 12:05	03/19/13 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	94		60 - 140	03/19/13 12:05	03/19/13 12:56	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		ug/L		03/21/13 23:27	03/22/13 04:42	5

**Client Sample ID: MW-2**

**Lab Sample ID: 460-52496-2**

**Date Collected: 03/15/13 13:00**

**Matrix: Water**

**Date Received: 03/18/13 11:21**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			03/23/13 00:13	1
Benzene	ND		1.0		ug/L			03/23/13 00:13	1
Ethylbenzene	ND		1.0		ug/L			03/23/13 00:13	1
Toluene	ND		1.0		ug/L			03/23/13 00:13	1
Xylenes, Total	ND		3.0		ug/L			03/23/13 00:13	1
1,2-Dichloroethane	ND		1.0		ug/L			03/23/13 00:13	1
Naphthalene	ND		1.0		ug/L			03/23/13 00:13	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			03/23/13 00:13	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			03/23/13 00:13	1
Isopropylbenzene	ND		1.0		ug/L			03/23/13 00:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		03/23/13 00:13	1
Bromofluorobenzene	93		70 - 130		03/23/13 00:13	1
Toluene-d8 (Surr)	98		70 - 130		03/23/13 00:13	1

TestAmerica Edison

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-52496-1

## Client Sample ID: MW-2

Lab Sample ID: 460-52496-2

Date Collected: 03/15/13 13:00

Matrix: Water

Date Received: 03/18/13 11:21

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020		ug/L		03/19/13 12:05	03/19/13 13:26	1
<i>Surrogate</i>									
	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1,1,2-Tetrachloroethane	95		60 - 140				03/19/13 12:05	03/19/13 13:26	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		ug/L		03/21/13 23:27	03/22/13 04:50	5

## Client Sample ID: MW-4

Lab Sample ID: 460-52496-3

Date Collected: 03/15/13 14:27

Matrix: Water

Date Received: 03/18/13 11:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	100		1.0		ug/L			03/22/13 14:06	1
Benzene	300		1.0		ug/L			03/22/13 14:06	1
Ethylbenzene	68		1.0		ug/L			03/22/13 14:06	1
Toluene	220		1.0		ug/L			03/22/13 14:06	1
Xylenes, Total	290		3.0		ug/L			03/22/13 14:06	1
1,2-Dichloroethane	ND		1.0		ug/L			03/22/13 14:06	1
Naphthalene	11		1.0		ug/L			03/22/13 14:06	1
1,2,4-Trimethylbenzene	86		1.0		ug/L			03/22/13 14:06	1
1,3,5-Trimethylbenzene	19		1.0		ug/L			03/22/13 14:06	1
Isopropylbenzene	2.6		1.0		ug/L			03/22/13 14:06	1
<i>Surrogate</i>									
	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	102		70 - 130					03/22/13 14:06	1
Bromofluorobenzene	101		70 - 130					03/22/13 14:06	1
Toluene-d8 (Surr)	105		70 - 130					03/22/13 14:06	1

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020		ug/L		03/19/13 12:05	03/19/13 13:55	1
<i>Surrogate</i>									
	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1,1,2-Tetrachloroethane	95		60 - 140				03/19/13 12:05	03/19/13 13:55	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		ug/L		03/21/13 23:27	03/22/13 04:53	5

## Client Sample ID: MW-5

Lab Sample ID: 460-52496-4

Date Collected: 03/15/13 12:18

Matrix: Water

Date Received: 03/18/13 11:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			03/22/13 23:49	1
Benzene	ND		1.0		ug/L			03/22/13 23:49	1
Ethylbenzene	ND		1.0		ug/L			03/22/13 23:49	1

TestAmerica Edison

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-52496-1

**Client Sample ID: MW-5**

**Lab Sample ID: 460-52496-4**

Date Collected: 03/15/13 12:18

Matrix: Water

Date Received: 03/18/13 11:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0		ug/L			03/22/13 23:49	1
Xylenes, Total	ND		3.0		ug/L			03/22/13 23:49	1
1,2-Dichloroethane	ND		1.0		ug/L			03/22/13 23:49	1
Naphthalene	ND		1.0		ug/L			03/22/13 23:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			03/22/13 23:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			03/22/13 23:49	1
Isopropylbenzene	ND		1.0		ug/L			03/22/13 23:49	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	94		70 - 130					03/22/13 23:49	1
Bromofluorobenzene	94		70 - 130					03/22/13 23:49	1
Toluene-d8 (Surr)	97		70 - 130					03/22/13 23:49	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020		ug/L		03/19/13 12:05	03/19/13 14:24	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,1,1,2-Tetrachloroethane	96		60 - 140				03/19/13 12:05	03/19/13 14:24	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		ug/L		03/21/13 23:27	03/22/13 04:57	5

**Client Sample ID: MW-6**

**Lab Sample ID: 460-52496-5**

Date Collected: 03/15/13 13:13

Matrix: Water

Date Received: 03/18/13 11:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			03/22/13 14:55	1
Benzene	ND		1.0		ug/L			03/22/13 14:55	1
Ethylbenzene	ND		1.0		ug/L			03/22/13 14:55	1
Toluene	ND		1.0		ug/L			03/22/13 14:55	1
Xylenes, Total	ND		3.0		ug/L			03/22/13 14:55	1
1,2-Dichloroethane	ND		1.0		ug/L			03/22/13 14:55	1
Naphthalene	ND		1.0		ug/L			03/22/13 14:55	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			03/22/13 14:55	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			03/22/13 14:55	1
Isopropylbenzene	ND		1.0		ug/L			03/22/13 14:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	98		70 - 130					03/22/13 14:55	1
Bromofluorobenzene	93		70 - 130					03/22/13 14:55	1
Toluene-d8 (Surr)	98		70 - 130					03/22/13 14:55	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020		ug/L		03/19/13 12:05	03/19/13 14:54	1

TestAmerica Edison

# Client Sample Results

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-52496-1

## Client Sample ID: MW-6

Lab Sample ID: 460-52496-5

Date Collected: 03/15/13 13:13

Matrix: Water

Date Received: 03/18/13 11:21

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	98		60 - 140	03/19/13 12:05	03/19/13 14:54	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.1		1.5		ug/L		03/21/13 23:27	03/22/13 05:01	5

## Client Sample ID: MW-9

Lab Sample ID: 460-52496-6

Date Collected: 03/15/13 13:40

Matrix: Water

Date Received: 03/18/13 11:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	8.6		1.0		ug/L			03/22/13 15:20	1
Benzene	33		1.0		ug/L			03/22/13 15:20	1
Ethylbenzene	1.1		1.0		ug/L			03/22/13 15:20	1
Toluene	ND		1.0		ug/L			03/22/13 15:20	1
Xylenes, Total	ND		3.0		ug/L			03/22/13 15:20	1
1,2-Dichloroethane	ND		1.0		ug/L			03/22/13 15:20	1
Naphthalene	ND		1.0		ug/L			03/22/13 15:20	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			03/22/13 15:20	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			03/22/13 15:20	1
Isopropylbenzene	ND		1.0		ug/L			03/22/13 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		03/22/13 15:20	1
Bromofluorobenzene	100		70 - 130		03/22/13 15:20	1
Toluene-d8 (Surr)	107		70 - 130		03/22/13 15:20	1

### Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020		ug/L		03/19/13 12:05	03/19/13 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	97		60 - 140	03/19/13 12:05	03/19/13 15:23	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		ug/L		03/21/13 23:27	03/22/13 05:04	5

## Client Sample ID: MW-10

Lab Sample ID: 460-52496-7

Date Collected: 03/15/13 14:00

Matrix: Water

Date Received: 03/18/13 11:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	120		5.0		ug/L			03/23/13 01:03	5
Benzene	1500		5.0		ug/L			03/23/13 01:03	5
Ethylbenzene	410		5.0		ug/L			03/23/13 01:03	5
Toluene	100		5.0		ug/L			03/23/13 01:03	5
Xylenes, Total	720		15		ug/L			03/23/13 01:03	5
1,2-Dichloroethane	ND		5.0		ug/L			03/23/13 01:03	5
Naphthalene	130		5.0		ug/L			03/23/13 01:03	5

TestAmerica Edison

# Client Sample Results

Client: Center Point Tank Service  
 Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-52496-1

**Client Sample ID: MW-10**

**Lab Sample ID: 460-52496-7**

Date Collected: 03/15/13 14:00

Matrix: Water

Date Received: 03/18/13 11:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	590		5.0		ug/L			03/23/13 01:03	5
1,3,5-Trimethylbenzene	150		5.0		ug/L			03/23/13 01:03	5
Isopropylbenzene	41		5.0		ug/L			03/23/13 01:03	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130					03/23/13 01:03	5
Bromofluorobenzene	90		70 - 130					03/23/13 01:03	5
Toluene-d8 (Surr)	92		70 - 130					03/23/13 01:03	5

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020		ug/L		03/20/13 11:01	03/20/13 20:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	87		60 - 140				03/20/13 11:01	03/20/13 19:56	1
1,1,1,2-Tetrachloroethane	87		60 - 140				03/20/13 11:01	03/20/13 20:25	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		ug/L		03/21/13 23:27	03/22/13 05:08	5

# Certification Summary

Client: Center Point Tank Service  
 Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-52496-1

## Laboratory: TestAmerica Edison

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	04-30-13
New Jersey	NELAP	2	12028	06-30-13
New York	NELAP	2	11452	04-01-13
Pennsylvania	NELAP	3	68-00522	02-28-13
Rhode Island	State Program	1	LAO00132	12-30-13
USDA	Federal		NJCA-003-08	03-11-14

## Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-13
California	NELAP	9	4224CA	03-31-13
Connecticut	State Program	1	PH-0688	09-30-14
Florida	NELAP	4	E871008	06-30-13
Illinois	NELAP	5	002602	06-30-13
L-A-B	DoD ELAP		L2314	07-24-13
Louisiana	NELAP	6	04041	06-30-13
New Hampshire	NELAP	1	203011	04-04-13
New Jersey	NELAP	2	PA005	06-30-13
New York	NELAP	2	11182	04-01-13
North Carolina DENR	State Program	4	434	12-31-13
Pennsylvania	NELAP	3	02-00416	04-30-13
South Carolina	State Program	4	89014	04-30-13
US Fish & Wildlife	Federal		LE94312A-1	11-30-14
USDA	Federal		P-Soil-01	04-16-15
USDA	Federal		P330-10-00139	04-28-13
Utah	NELAP	8	STLP	04-30-13
Virginia	NELAP	3	460189	09-14-13
West Virginia DEP	State Program	3	142	01-31-14
Wisconsin	State Program	5	998027800	08-31-13

# Method Summary

Client: Center Point Tank Service  
Project/Site: Liberty Oil #38

TestAmerica Job ID: 460-52496-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL EDI
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL PIT
200.8	Metals (ICP/MS)	EPA	TAL EDI

**Protocol References:**

EPA = US Environmental Protection Agency

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

**Laboratory References:**

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



## CHAIN OF CUSTODY REPORT

1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

Client: CenterPoint Tank Services

Address: 330 E. Bowman Franklin Hwy

City: Darlington PA 19718

State: PA

Project Name: Leak Oil #35

Project #/PO#: 8-12-4292

Sampler: Kadel Tank

Report to: Kadel Tank

E-mail: kadel@centerpoint.com

Bill To: Same

Address:

Program: AMST

Phone #:

Fax #:

Terms: Net 30 days

Received:  4 DAY  3 DAY  2 DAY  1 DAY  24 HRS

Deliverable Package:  ambient  ice

Temp. Upon Receipt: 1.5

DATE RESULTS NEEDED:

LABORATORY ID NUMBER: 400-52496

DATE COLLECTED: 3/15/13

TIME COLLECTED: 1300

SAMPLE MATRIX: GM

MeOH: 3

DI: 1

HCl: 1

HNO3: 1

H2SO4: 1

NaOH: 1

NONE: 1

TOTAL # OF BOTTLES: 3

SAMPLES FIELD FILTERED: NO

leaded gasoline: NO

unleaded gasoline: NO

ANALYSIS TYPE:

CRACKED, BROKEN, IMPROPERLY SEALED

SAMPLE CONTROL

DATE 3/16/13

TIME 1400

DATE 3/16/13

TIME 1400

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## Login Sample Receipt Checklist

Client: Center Point Tank Service

Job Number: 460-52496-1

**Login Number: 52496**

**List Source: TestAmerica Edison**

**List Number: 1**

**Creator: Malandra, Ryan**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
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	1.8°C
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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Center Point Tank Service

Job Number: 460-52496-1

**Login Number: 52496**

**List Number: 1**

**Creator: Ras, Erin F**

**List Source: TestAmerica Pittsburgh**

**List Creation: 03/19/13 09:46 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

