

Wickham, Jerry, Env. Health

From: Wickham, Jerry, Env. Health
Sent: Tuesday, October 29, 2013 11:19 AM
To: 'LMaffei@sanleandro.org'
Subject: RE: 1285 Bancroft Soil Samples (Shell 13-6017, T0600101224, ACHCSA Case No. 156)

Hi Lisa,

Based on the soil analytical results presented, we have no objection to moving forward with installation of a new UST VPH system at the above referenced site.

Regards,
Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
phone: 510-567-6791
jerry.wickham@acgov.org

Online case files are available for review at the following website: <http://www.acgov.org/aceh/index.htm>.

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From: LMaffei@sanleandro.org [<mailto:LMaffei@sanleandro.org>]
Sent: Friday, October 25, 2013 9:17 AM
To: Wickham, Jerry, Env. Health
Subject: FW: 1285 Bancroft Soil Samples (Shell 13-6017, T0600101224, ACHCSA Case No. 156)

Hi Jerry,

Attached please find the soil sample results from the UST removal at the subject site on 10/15/13. I see on GEOTRACKER that the case was closed 8/13/2010, but would like review/approval from the Alameda County LOP to move forward with installation of a new UST VPH system at the site. (The City of San Leandro is no longer an LIA).

Soil samples for 3 x 10,000 gallon single-walled fiberglass tanks were collected at each sidewall (6 total) and under each dispenser (4 total).

Kind regards,
Lisa

Lisa Maffei | Environmental Services Section
835 E 14th Street | San Leandro, CA 94577
510-577-6032 | Fax 510-577-6019 | lmaffei@sanleandro.org

From: Mark Vendeiro [<mailto:m.vendeiro@att.net>]
Sent: Thursday, October 24, 2013 4:00 PM

To: Maffei, Lisa

Subject: 1285 Bancroft Soil Samples

Lisa,

Please see the attached lab analysis for the soil samples taken at 1285 Bancroft.

Thank you,

Mark Vendeiro

MVP Petroleum Engineering, Inc.

mvpeng@att.net

916-205-1537

Mark Vendeiro
MVP Petroleum Engineer Inc.
P.O. Box 281
Folsom, CA 957630281

Client	MVP Petroleum Engineer Inc.
Workorder	20733 Bancroft Shell
Received	10/15/13

The samples were received in EPA specified containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

Sparger Technology, Inc. ID Suffix Keys - These descriptors will follow the Sparger Technology, Inc. ID numbers and help identify the specific sample and clarify the report.

- DUP - Matrix Duplicate
- MS - Matrix Spike
- MSD - Matrix Spike Duplicate
- LCS - Lab Control Sample
- LCSD - Lab Control Sample Duplicate
- RPD - Relative Percent Difference
- QC - Additional Quality Control
- DIL - Results from a diluted sample
- ND - None Detected
- RL - Reporting Limit

Note: In an effort to conserve paper, the results are printed on both sides of the paper.



Ray James
Laboratory Director

Mark Vendeiro
MVP Petroleum Engineering Inc.
P.O. Box 281
Folsom, CA 957630281

Workorder 20733

Enclosed are the results from samples received on October 15, 2013.

The requested analyses are listed below.

SAMPLE	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
20733001	87-1N @ 14', Soil	10/15/13	8015B TPHgas S 8260B BTEX/FOC S 6010B S
20733002	91-N @ 14', Soil	10/15/13	8015B TPHgas S 8260B BTEX/FOC S 6010B S
20733003	87-2N @ 14', Soil	10/15/13	8015B TPHgas S 8260B BTEX/FOC S 6010B S
20733004	87-1S @ 14', Soil	10/15/13	8015B TPHgas S 8260B BTEX/FOC S 6010B S
20733005	91-S @ 14', Soil	10/15/13	8015B TPHgas S 8260B BTEX/FOC S 6010B S
20733006	87-2S @ 14', Soil	10/15/13	8015B TPHgas S 8260B BTEX/FOC S 6010B S
20733007	UDC-1/2 @ 5', Soil	10/15/13	8015B TPHgas S 8260B BTEX/FOC S 6010B S
20733008	UDC-3/4 @ 5', Soil	10/15/13	8015B TPHgas S 8260B BTEX/FOC S 6010B S
20733009	UDC-5/6 @ 5', Soil	10/15/13	8015B TPHgas S 8260B BTEX/FOC S 6010B S
20733010	UDC-7/8 @ 5', Soil	10/15/13	8015B TPHgas S 8260B BTEX/FOC S 6010B S

Test Certificate of Analysis

Client ID MVP Petroleum Engineer Inc.
Workorder # 20733

Workorder ID Bancroft Shell

Laboratory ID 20733001
Sample ID 87-1N @ 14'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

8015B TPH Gas
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
8015B TPHgas S	10/16/13	10/16/13	ND	0.50 mg/Kg	1:1

Surrogates

Result	Recovery	Limits
Trifluorotoluene 17.3 ug/kg	86 %	(65 - 135)

Laboratory ID 20733001
Sample ID 87-1N @ 14'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

8260B BTEX/Oxygenates
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Tertiary butanol	8260B BTEX/FOC	10/16/13	10/16/13	ND	10 ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	0.50 ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Benzene	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Toluene	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Xylene, Total	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Naphthalene	8260B BTEX/FOC	10/16/13	10/16/13	ND	2.0 ug/kg	1:1

Surrogates

Result	Recovery	Limits
1,2-Dichloroethane-d4 54 ug/kg	108 %	(65 - 135)

Laboratory ID 20733001
Sample ID 87-1N @ 14'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

6010B METALS
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
6010B S	10/16/13	10/17/13	6.90	1.0 mg/Kg	1:1

Test Certificate of Analysis

Client ID MVP Petroleum Engineer Inc.
Workorder # 20733

Workorder ID Bancroft Shell

Laboratory ID 20733002
Sample ID 91-N @ 14'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

8015B TPH Gas
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
8015B TPHgas S	10/16/13	10/16/13	ND	0.50 mg/Kg	1:1

Surrogates

Result	Recovery	Limits
Trifluorotoluene 16.6 ug/kg	83 %	(65 - 135)

Laboratory ID 20733002
Sample ID 91-N @ 14'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

8260B BTEX/Oxygenates
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Tertiary butanol	8260B BTEX/FOC	10/16/13	10/16/13	ND	10 ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	0.50 ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Benzene	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Toluene	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Xylene, Total	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Naphthalene	8260B BTEX/FOC	10/16/13	10/16/13	ND	2.0 ug/kg	1:1

Surrogates

Result	Recovery	Limits
1,2-Dichloroethane-d4 52 ug/kg	104 %	(65 - 135)

Laboratory ID 20733002
Sample ID 91-N @ 14'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

6010B METALS
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
6010B S	10/16/13	10/17/13	6.16	1.0 mg/Kg	1:1

Test Certificate of Analysis

Client ID MVP Petroleum Engineer Inc.
Workorder # 20733

Workorder ID Bancroft Shell

Laboratory ID 20733003
Sample ID 87-2N @ 14'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

8015B TPH Gas
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
8015B TPHgas S	10/16/13	10/16/13	ND	0.50 mg/Kg	1:1

Surrogates

Result	Recovery	Limits
Trifluorotoluene 17.1 ug/kg	86 %	(65 - 135)

Laboratory ID 20733003
Sample ID 87-2N @ 14'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

8260B BTEX/Oxygenates
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
Tertiary butanol 8260B BTEX/FOC	10/16/13	10/16/13	ND	10 ug/kg	1:1
Methyl-tert-butyl-ether 8260B BTEX/FOC	10/16/13	10/16/13	ND	0.50 ug/kg	1:1
Di-isopropyl ether 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethyl tert butyl ether 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Tert amyl methyl ether 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dichloroethane 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dibromoethane 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Benzene 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Toluene 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethylbenzene 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Xylene, Total 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Naphthalene 8260B BTEX/FOC	10/16/13	10/16/13	ND	2.0 ug/kg	1:1

Surrogates

Result	Recovery	Limits
1,2-Dichloroethane-d4 54 ug/kg	108 %	(65 - 135)

Laboratory ID 20733003
Sample ID 87-2N @ 14'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

6010B METALS
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
Lead 6010B S	10/16/13	10/17/13	7.45	1.0 mg/Kg	1:1

Test Certificate of Analysis

Client ID MVP Petroleum Engineer Inc.
Workorder # 20733

Workorder ID Bancroft Shell

Laboratory ID 20733004
Sample ID 87-1S @ 14'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

**8015B TPH Gas
Parameter**

Method	Prep Date	Analyzed	Result	RL Units	Dilution
8015B TPHgas S	10/16/13	10/16/13	ND	0.50 mg/Kg	1:1

Surrogates

Result	Recovery	Limits
Trifluorotoluene 15.4 ug/kg	77 %	(65 - 135)

Laboratory ID 20733004
Sample ID 87-1S @ 14'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

**8260B BTEX/Oxygenates
Parameter**

Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Tertiary butanol	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	0.50 ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Benzene	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Toluene	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Xylene, Total	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Naphthalene	8260B BTEX/FOC	10/16/13	10/16/13	ND	2.0 ug/kg	1:1

Surrogates

Result	Recovery	Limits
1,2-Dichloroethane-d4 53 ug/kg	106 %	(65 - 135)

Laboratory ID 20733004
Sample ID 87-1S @ 14'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

**6010B METALS
Parameter**

Method	Prep Date	Analyzed	Result	RL Units	Dilution
6010B S	10/16/13	10/17/13	9.06	1.0 mg/Kg	1:1

Test Certificate of Analysis

Client ID MVP Petroleum Engineer Inc.
Workorder # 20733

Workorder ID Bancroft Shell

Laboratory ID 20733005
Sample ID 91-S @ 14'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

8015B TPH Gas
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
8015B TPHgas S	10/16/13	10/16/13	ND	0.50 mg/Kg	1:1

Surrogates

Result	Recovery	Limits
Trifluorotoluene 16.5 ug/kg	82 %	(65 - 135)

Laboratory ID 20733005
Sample ID 91-S @ 14'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

8260B BTEX/Oxygenates
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
Tertiary butanol 8260B BTEX/FOC 10/16/13 10/16/13 ND 10 ug/kg 1:1					
Methyl-tert-butyl-ether 8260B BTEX/FOC 10/16/13 10/16/13 ND 0.50 ug/kg 1:1					
Di-isopropyl ether 8260B BTEX/FOC 10/16/13 10/16/13 ND 1.0 ug/kg 1:1					
Ethyl tert butyl ether 8260B BTEX/FOC 10/16/13 10/16/13 ND 1.0 ug/kg 1:1					
Tert amyl methyl ether 8260B BTEX/FOC 10/16/13 10/16/13 ND 1.0 ug/kg 1:1					
1,2-Dichloroethane 8260B BTEX/FOC 10/16/13 10/16/13 ND 1.0 ug/kg 1:1					
1,2-Dibromoethane 8260B BTEX/FOC 10/16/13 10/16/13 ND 1.0 ug/kg 1:1					
Benzene 8260B BTEX/FOC 10/16/13 10/16/13 ND 1.0 ug/kg 1:1					
Toluene 8260B BTEX/FOC 10/16/13 10/16/13 ND 1.0 ug/kg 1:1					
Ethylbenzene 8260B BTEX/FOC 10/16/13 10/16/13 ND 1.0 ug/kg 1:1					
Xylene, Total 8260B BTEX/FOC 10/16/13 10/16/13 ND 1.0 ug/kg 1:1					
Naphthalene 8260B BTEX/FOC 10/16/13 10/16/13 ND 2.0 ug/kg 1:1					

Surrogates

Result	Recovery	Limits
1,2-Dichloroethane-d4 53 ug/kg	106 %	(65 - 135)

Laboratory ID 20733005
Sample ID 91-S @ 14'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

6010B METALS
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
6010B S	10/16/13	10/17/13	9.48	1.0 mg/Kg	1:1

Test Certificate of Analysis

Client ID MVP Petroleum Engineer Inc.
Workorder # 20733

Workorder ID Bancroft Shell

Laboratory ID 20733006
Sample ID 87-2S @14'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

8015B TPH Gas
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
8015B TPHgas S	10/16/13	10/16/13	ND	0.50 mg/Kg	1:1

Surrogates

Result	Recovery	Limits
Trifluorotoluene 15.8 ug/kg	79 %	(65 - 135)

Laboratory ID 20733006
Sample ID 87-2S @14'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

8260B BTEX/Oxygenates
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Tertiary butanol	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	0.50 ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Benzene	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Toluene	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Xylene, Total	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Naphthalene	8260B BTEX/FOC	10/16/13	10/16/13	ND	2.0 ug/kg	1:1

Surrogates

Result	Recovery	Limits
1,2-Dichloroethane-d4 55 ug/kg	110 %	(65 - 135)

Laboratory ID 20733006
Sample ID 87-2S @14'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

6010B METALS
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
6010B S	10/16/13	10/17/13	6.69	1.0 mg/Kg	1:1

Test Certificate of Analysis

Client ID MVP Petroleum Engineer Inc.
Workorder # 20733

Workorder ID Bancroft Shell

Laboratory ID 20733007
Sample ID UDC-1/2 @ 5'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

8015B TPH Gas
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas 8015B TPHgas S	10/16/13	10/16/13	ND	0.50 mg/Kg	1:1

Surrogates

Result	Recovery	Limits
Trifluorotoluene 14.9 ug/kg	74 %	(65 - 135)

Laboratory ID 20733007
Sample ID UDC-1/2 @ 5'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

8260B BTEX/Oxygenates
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
Tertiary butanol 8260B BTEX/FOC	10/16/13	10/16/13	ND	10 ug/kg	1:1
Methyl-tert-butyl-ether 8260B BTEX/FOC	10/16/13	10/16/13	ND	0.50 ug/kg	1:1
Di-isopropyl ether 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethyl tert butyl ether 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Tert amyl methyl ether 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dichloroethane 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dibromoethane 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Benzene 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Toluene 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethylbenzene 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Xylene, Total 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Naphthalene 8260B BTEX/FOC	10/16/13	10/16/13	ND	2.0 ug/kg	1:1

Surrogates

Result	Recovery	Limits
1,2-Dichloroethane-d4 56 ug/kg	112 %	(65 - 135)

Laboratory ID 20733007
Sample ID UDC-1/2 @ 5'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

6010B METALS
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
Lead 6010B S	10/16/13	10/17/13	24.3	1.0 mg/Kg	1:1

Test Certificate of Analysis

Client ID MVP Petroleum Engineer Inc.
Workorder # 20733

Workorder ID Bancroft Shell

Laboratory ID 20733008
Sample ID UDC-3/4 @ 5'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

8015B TPH Gas
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
8015B TPHgas S	10/16/13	10/16/13	ND	0.50 mg/Kg	1:1

Surrogates

Result	Recovery	Limits
Trifluorotoluene 15.3 ug/kg	76 %	(65 - 135)

Laboratory ID 20733008
Sample ID UDC-3/4 @ 5'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

8260B BTEX/Oxygenates
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Tertiary butanol	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	0.50 ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Benzene	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Toluene	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Xylene, Total	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Naphthalene	8260B BTEX/FOC	10/16/13	10/16/13	ND	2.0 ug/kg	1:1

Surrogates

Result	Recovery	Limits
1,2-Dichloroethane-d4 37 ug/kg	74 %	(65 - 135)

Laboratory ID 20733008
Sample ID UDC-3/4 @ 5'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

6010B METALS
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
6010B S	10/16/13	10/17/13	10.6	1.0 mg/Kg	1:1

Test Certificate of Analysis

Client ID MVP Petroleum Engineer Inc.
Workorder # 20733

Workorder ID Bancroft Shell

Laboratory ID 20733009
Sample ID UDC-5/6 @ 5'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

8015B TPH Gas
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
8015B TPHgas S	10/16/13	10/16/13	ND	0.50 mg/Kg	1:1

Surrogates

Result	Recovery	Limits
Trifluorotoluene 15.5 ug/kg	78 %	(65 - 135)

Laboratory ID 20733009
Sample ID UDC-5/6 @ 5'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

8260B BTEX/Oxygenates
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Tertiary butanol	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	0.50 ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Benzene	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Toluene	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Xylene, Total	8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Naphthalene	8260B BTEX/FOC	10/16/13	10/16/13	ND	2.0 ug/kg	1:1

Surrogates

Result	Recovery	Limits
1,2-Dichloroethane-d4 59 ug/kg	118 %	(65 - 135)

Laboratory ID 20733009
Sample ID UDC-5/6 @ 5'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

6010B METALS
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
6010B S	10/16/13	10/17/13	13.3	1.0 mg/Kg	1:1

Test Certificate of Analysis

Client ID MVP Petroleum Engineer Inc.
Workorder # 20733

Workorder ID Bancroft Shell

Laboratory ID 20733010
Sample ID UDC-7/8 @ 5'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

8015B TPH Gas
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas 8015B TPHgas S	10/16/13	10/16/13	ND	0.50 mg/Kg	1:1

Surrogates

Result	Recovery	Limits
Trifluorotoluene 16 ug/kg	80 %	(65 - 135)

Laboratory ID 20733010
Sample ID UDC-7/8 @ 5'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

8260B BTEX/Oxygenates
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
Tertiary butanol 8260B BTEX/FOC	10/16/13	10/16/13	ND	10 ug/kg	1:1
Methyl-tert-butyl-ether 8260B BTEX/FOC	10/16/13	10/16/13	ND	0.50 ug/kg	1:1
Di-isopropyl ether 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethyl tert butyl ether 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Tert amyl methyl ether 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dichloroethane 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dibromoethane 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Benzene 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Toluene 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethylbenzene 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Xylene, Total 8260B BTEX/FOC	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Naphthalene 8260B BTEX/FOC	10/16/13	10/16/13	ND	2.0 ug/kg	1:1

Surrogates

Result	Recovery	Limits
1,2-Dichloroethane-d4 58 ug/kg	116 %	(65 - 135)

Laboratory ID 20733010
Sample ID UDC-7/8 @ 5'
Matrix Soil

Sampled 10/15/13
Received 10/15/13
Reported 10/17/13

6010B METALS
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
Lead 6010B S	10/16/13	10/17/13	7.00	1.0 mg/Kg	1:1

Method Blank Report

Client ID	MVP Petroleum Engineer Inc.	Sample ID	MB for HBN 461770 [ICPV/7017]				
Laboratory ID	109282	Matrix	Soil				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Lead	6010B S	10/16/13	10/17/13	ND	1.0 mg/Kg	1:1	

Lab Control Sample Report

Client ID	MVP Petroleum Engineer Inc.	Sample ID	LCS for HBN 461770 [ICPV/7017]				
Laboratory ID	109283	Matrix	Soil				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Lead	6010B S	10/16/13	10/17/13	50.1	1.0 mg/Kg	1:1	

Lab Control Sample Duplicate Report

Client ID	MVP Petroleum Engineer Inc.	Sample ID	LCSD for HBN 461770 [ICPV/7017]				
Laboratory ID	109284	Matrix	Soil				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Lead	6010B S	10/16/13	10/17/13	50.8	1.0 mg/Kg	1:1	

Duplicate Report

Client ID	MVP Petroleum Engineer Inc.	Sample ID	DUP for HBN 461770 [ICPV/7017]				
Laboratory ID	109285	Matrix	Soil				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Lead	6010B S	10/16/13	10/17/13	24.9	1.0 mg/Kg	1:1	

Matrix Spike Report

Client ID	MVP Petroleum Engineer Inc.	Sample ID	MS for HBN 461770 [ICPV/7017]				
Laboratory ID	109286	Matrix	Soil				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Lead	6010B S	10/16/13	10/17/13	54.3	1.0 mg/Kg	1:1	

Matrix Spike Duplicate Report

Client ID	MVP Petroleum Engineer Inc.	Sample ID	MSD for HBN 461770 [ICPV/7017]				
Laboratory ID	109287	Matrix	Soil				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Lead	6010B S	10/16/13	10/17/13	54.7	1.0 mg/Kg	1:1	

Method Blank Report

Client ID	MVP Petroleum Engineer Inc.	Sample ID	MB for HBN 461772 [VGXV/3220]				
Laboratory ID	109288	Matrix	Soil				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
TPHgas	8015B TPHgas	S10/16/13	10/16/13	ND	0.50 mg/Kg	1:1	
Surrogates	Result	Recovery	Limits				
Trifluorotoluene	17 ug/kg	85 %	(65 - 135)				

Lab Control Sample Report

Client ID	MVP Petroleum Engineer Inc.	Sample ID	LCS for HBN 461772 [VGXV/3220]			
Laboratory ID	109289	Matrix	Soil			
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas	8015B TPHgas	S10/16/13	10/16/13	0.84	0.50 mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID	MVP Petroleum Engineer Inc.	Sample ID	LCSD for HBN 461772 [VGXV/3220]			
Laboratory ID	109290	Matrix	Soil			
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas	8015B TPHgas	S10/16/13	10/16/13	0.85	0.50 mg/Kg	1:1

Matrix Spike Report

Client ID	MVP Petroleum Engineer Inc.	Sample ID	MS for HBN 461772 [VGXV/3220]			
Laboratory ID	109291	Matrix	Soil			
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas	8015B TPHgas	S10/16/13	10/16/13	0.87	0.50 mg/Kg	1:1

Matrix Spike Duplicate Report

Client ID	MVP Petroleum Engineer Inc.	Sample ID	MSD for HBN 461772 [VGXV/3220]			
Laboratory ID	109292	Matrix	Soil			
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas	8015B TPHgas	S10/16/13	10/16/13	0.82	0.50 mg/Kg	1:1

Method Blank Report

Client ID MVP Petroleum Engineer Inc. **Sample ID** MB for HBN 461775 [VMXV/3542]
Laboratory ID 109293 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Tertiary butanol	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	ND	10 ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	ND	0.50 ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Benzene	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Toluene	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Ethylbenzene	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	ND	1.0 ug/kg	1:1
Xylene, Total	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	ND	1.0 ug/kg	1:1

Surrogates

Surrogate	Result	Recovery	Limits
1,2-Dichloroethane-d4	51 ug/kg	102 %	(65 - 135)

Lab Control Sample Report

Client ID MVP Petroleum Engineer Inc. **Sample ID** LCS for HBN 461775 [VMXV/3542]
Laboratory ID 109294 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Tertiary butanol	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	298	10 ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	58	0.50 ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	53	1.0 ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	55	1.0 ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	58	1.0 ug/kg	1:1
Benzene	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	55	1.0 ug/kg	1:1
Toluene	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	54	1.0 ug/kg	1:1
Ethylbenzene	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	55	1.0 ug/kg	1:1
Xylene, Total	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	164	1.0 ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID MVP Petroleum Engineer Inc. **Sample ID** LCSD for HBN 461775 [VMXV/3542]
Laboratory ID 109295 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Tertiary butanol	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	286	10 ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	56	0.50 ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	53	1.0 ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID MVP Petroleum Engineer Inc. **Sample ID** LCSD for HBN 461775 [VMXV/3542]
Laboratory ID 109295 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
(continued)						
Ethyl tert butyl ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	55	1.0 ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	57	1.0 ug/kg	1:1
Benzene	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	54	1.0 ug/kg	1:1
Toluene	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	53	1.0 ug/kg	1:1
Ethylbenzene	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	54	1.0 ug/kg	1:1
Xylene, Total	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	161	1.0 ug/kg	1:1

Matrix Spike Report

Client ID MVP Petroleum Engineer Inc. **Sample ID** MS for HBN 461775 [VMXV/3542]
Laboratory ID 109296 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Tertiary butanol	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	261	10 ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	49	0.50 ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	45	1.0 ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	46	1.0 ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	49	1.0 ug/kg	1:1
Benzene	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	48	1.0 ug/kg	1:1
Toluene	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	47	1.0 ug/kg	1:1
Ethylbenzene	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	50	1.0 ug/kg	1:1
Xylene, Total	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	144	1.0 ug/kg	1:1

Matrix Spike Duplicate Report

Client ID MVP Petroleum Engineer Inc. **Sample ID** MSD for HBN 461775 [VMXV/3542]
Laboratory ID 109297 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Tertiary butanol	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	287	10 ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	56	0.50 ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	51	1.0 ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	52	1.0 ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	54	1.0 ug/kg	1:1
Benzene	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	55	1.0 ug/kg	1:1
Toluene	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	54	1.0 ug/kg	1:1
Ethylbenzene	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	55	1.0 ug/kg	1:1
Xylene, Total	8260B BTEX/FOCl0/16/13	10/16/13	10/16/13	160	1.0 ug/kg	1:1

QC SUMMARY

Client ID	MVP Petroleum Engineer Inc.	Original Sample	20734001		
QC Batch	ICPP 7034		Duplicate [109285]		
Matrix	Soil				
Parameter				RPD	RPD Limits
Lead				3.35	(35)

Client ID	MVP Petroleum Engineer Inc.	Original Samples	20734001		
QC Batch	ICPP 7034		Matrix Spike [109286]		
Matrix	Soil		Matrix Spike Duplicate [109287]		
Parameter		Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD
Lead		60.5	61.3	(75-125)	1.31
					RPD Limits
					(35 MAX)

Client ID	MVP Petroleum Engineer Inc.	Original Samples	20733001		
QC Batch	VGX 3340		Matrix Spike [109291]		
Matrix	Soil		Matrix Spike Duplicate [109292]		
Parameter		Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD
TPHgas		87	82	(65-135)	5.9
					RPD Limits
					(20 MAX)

Client ID	MVP Petroleum Engineer Inc.	Original Samples	20733001		
QC Batch	VMX 3580		Matrix Spike [109296]		
Matrix	Soil		Matrix Spike Duplicate [109297]		
Parameter		Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD
Tertiary butanol		104	115	(65-135)	10
Methyl-tert-butyl-ether		98	112	(65-135)	13
Di-isopropyl ether		90	102	(65-135)	13
Ethyl tert butyl ether		92	104	(65-135)	12
Tert amyl methyl ether		98	108	(65-135)	9.7
Benzene		96	110	(65-135)	14
Toluene		94	108	(65-135)	14
Ethylbenzene		100	110	(65-135)	9.5
Xylene, Total		96	107	(65-135)	11
					RPD Limits
					(20 MAX)

QC SUMMARY

Client ID	MVP Petroleum Engineer Inc.	Samples	Lab Control Sample [109283]			
QC Batch	ICPP 7034		Lab Control Sample Duplicate [109284]			
Matrix	Soil					
Parameter		Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead		100	102	(80-120)	1.98	(20 MAX)
Client ID	MVP Petroleum Engineer Inc.	Samples	Lab Control Sample [109289]			
QC Batch	VGX 3340		Lab Control Sample Duplicate [109290]			
Matrix	Soil					
Parameter		Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas		84	85	(65-135)	1.2	(20 MAX)
Client ID	MVP Petroleum Engineer Inc.	Samples	Lab Control Sample [109294]			
QC Batch	VMX 3580		Lab Control Sample Duplicate [109295]			
Matrix	Soil					
Parameter		Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Tertiary butanol		119	114	(65-135)	4.3	(20 MAX)
Methyl-tert-butyl-ether		116	112	(65-135)	3.5	(20 MAX)
Di-isopropyl ether		106	106	(65-135)	00	(20 MAX)
Ethyl tert butyl ether		110	110	(65-135)	00	(20 MAX)
Tert amyl methyl ether		116	114	(65-135)	1.7	(20 MAX)
Benzene		110	108	(65-135)	1.8	(20 MAX)
Toluene		108	106	(65-135)	1.9	(20 MAX)
Ethylbenzene		110	108	(65-135)	1.8	(20 MAX)
Xylene, Total		109	107	(65-135)	1.9	(20 MAX)

