

Galen Williams

EarthFax Engineering

7324 So. Union Park Ave., # 100

AMERICAN

Midvale, UT 84047

WEST

TEL: (801) 561-1555

ANALYTICAL

LABORATORIES

RE: CPL Red Butte / BV-7

Dear Galen Williams:

Lab Set ID: 1012036

463 West 3600 South

Salt Lake City, UT

American West Analytical Laboratories received 4 sample(s) on 12/2/2010 for the analyses presented in the following report.

84115

All analyses were performed in accordance to The NELAC Institute protocols unless noted otherwise. American West Analytical Laboratories is certified by The NELAC Institute in Utah and Texas; and is state certified in Colorado and Idaho. Certification document is available upon request. If you have any questions or concerns regarding this report please feel free to call.

(801) 263-8686

Toll Free (888) 263-8686

Fax (801)263-8687

email: awal@awal-labs.com

Kyle F. Gross by the with an Laboratory Director

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitaion limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Jose Rocha

Thank You.

QA Officer

Approved by: ______ Laboratory Director or designee

Report Date: 12/3/2010 Page 1 of 9



ORGANIC ANALYTICAL REPORT

Client: EarthFax Engineering Contact: Galen Williams

Project: CPL Red Butte / BV-7

Lab Sample ID: 1012036-001B

AMERICAN Client Sample ID: RB-1

 Collection Date:
 12/2/2010 0250h
 Analyzed: 12/2/2010 1728h

 Received Date:
 12/2/2010 1011h
 Extracted: 12/2/2010 1321h

Method Used: SW8015D

LABORATORIES

463 West 3600 South

Salt Lake City, UT

84115

ANALYTICAL

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Units: mg/L **Dilution Factor: 1 CAS** Reporting **Analytical** Compound Number Limit Result Qual Diesel Range Organics C10-C28 68476-34-6 0.510 < 0.510 Surr: 4-Bromofluorobenzene 460-00-4 10-190 50.5

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Kyle F. Gross Laboratory Director

Jose Rocha

QA Officer

Report Date: 12/3/2010 Page 2 of 9



ORGANIC ANALYTICAL REPORT

Client: EarthFax Engineering Contact: Galen Williams

Project: CPL Red Butte / BV-7

1012036-002B Lab Sample ID:

Client Sample ID: RB-2 **AMERICAN**

> **Collection Date:** 12/2/2010 0305h Analyzed: 12/2/2010 1749h **Received Date:** 12/2/2010 1011h Extracted: 12/2/2010 1321h

Method Used: SW8015D

LABORATORIES

463 West 3600 South

ANALYTICAL

TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C **Analytical Results**

Units: mg/L

Dilution Factor: 1

Salt Lake City, UT

84115

CAS Reporting **Analytical** Compound Number Limit Result Qual Diesel Range Organics C10-C28 68476-34-6 0.526 < 0.526 Surr: 4-Bromofluorobenzene 460-00-4 10-190 67.5

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer

Report Date: 12/3/2010 Page 3 of 9



ORGANIC ANALYTICAL REPORT

Client: EarthFax Engineering Contact: Galen Williams

Project: CPL Red Butte / BV-7

Lab Sample ID: 1012036-003B

AMERICAN Client Sample ID: RB-1

 Collection Date:
 12/2/2010 0740h
 Analyzed: 12/2/2010 1810h

 Received Date:
 12/2/2010 1011h
 Extracted: 12/2/2010 1321h

Method Used: SW8015D

Diesel Range Organics C10-C28

LABORATORIES

463 West 3600 South

Salt Lake City, UT

ANALYTICAL

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

68476-34-6

0.500

Units: mg/L

Dilution Factor: 1 CAS Reporting
Compound Number Limit

Surr: 4-Bromofluorobenzene 460-00-4 10-190 **63.5**

84115

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer

Report Date: 12/3/2010 Page 4 of 9

Analytical

Result

< 0.500

Qual



ORGANIC ANALYTICAL REPORT

Client: EarthFax Engineering Contact: Galen Williams

Project: CPL Red Butte / BV-7

Lab Sample ID: 1012036-004B

AMERICAN Client Sample ID: RB-2

 Collection Date:
 12/2/2010 0800h
 Analyzed: 12/2/2010 1831h

 Received Date:
 12/2/2010 1011h
 Extracted: 12/2/2010 1321h

Method Used: SW8015D

Surr: 4-Bromofluorobenzene

LABORATORIES

ANALYTICAL

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

460-00-4

10-190

Units: mg/L
Dilution Factor: 1
CAS Reporting Analytical
Number Limit Result

Diesel Range Organics C10-C28

68476-34-6
0.510

< 0.510

463 West 3600 South Salt Lake City, UT 84115

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email: awal@awal-labs.com

Kyle F. Gross Laboratory Director

> Jose Rocha QA Officer

> > Report Date: 12/3/2010 Page 5 of 9

Qual

70.5



ORGANIC ANALYTICAL REPORT

Client: EarthFax Engineering Contact: Galen Williams

Project: CPL Red Butte / BV-7

Lab Sample ID: 1012036-001A

AMERICAN Client Sample ID: RB-1

Collection Date: 12/2/2010 0250h **Analyzed:** 12/2/2010 1955h

Received Date: 12/2/2010 1011h

Method Used: SW8260C

LABORATORIES

ANALYTICAL

Analytical Results VOAs MBTEXN/GRO by GC/MS Method 8260C/5030C

463 West 3600 South Salt Lake City, UT	Units: mg/L Dilution Factor: 1 Compound	CAS Number	Reporting Limit	Analytical Result	Qual
84115	Benzene	71-43-2	0.00100	< 0.00100	
	Ethylbenzene	100-41-4	0.00200	< 0.00200	
	Naphthalene	91-20-3	0.00200	< 0.00200	
	Toluene	108-88-3	0.00200	< 0.00200	
(801) 263-8686	Xylenes, Total	1330-20-7	0.00200	< 0.00200	
Toll Free (888) 263-8686	TPH C6-C10 (GRO)		0.0200	< 0.0200	
Fax (801)263-8687	Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	114	
email: awal@awal-labs.com	Surr: 4-Bromofluorobenzene	460-00-4	80-123	104	
	Surr: Dibromofluoromethane	1868-53-7	80-124	104	
Kyle F. Gross	Surr: Toluene-d8	2037-26-5	80-125	96.2	

Laboratory Director

Jose Rocha QA Officer

Report Date: 12/3/2010 Page 6 of 9



ORGANIC ANALYTICAL REPORT

Client: EarthFax Engineering Contact: Galen Williams

Project: CPL Red Butte / BV-7

Lab Sample ID: 1012036-002A

AMERICAN Client Sample ID: RB-2

Analytical Results

Collection Date: 12/2/2010 0305h **Analyzed:** 12/2/2010 2034h

Received Date: 12/2/2010 1011h

Method Used: SW8260C

LABORATORIES

ANALYTICAL

VOAs MBTEXN/GRO by GC/MS Method 8260C/5030C

463 West 3600 South Salt Lake City, UT	Units: mg/L Dilution Factor: 1 Compound	CAS Number	Reporting Limit	Analytical Result	Qual
84115	Benzene	71-43-2	0.00100	0.00133	
	Ethylbenzene	100-41-4	0.00200	< 0.00200	
	Naphthalene	91-20-3	0.00200	< 0.00200	
	Toluene	108-88-3	0.00200	0.00367	
(801) 263-8686	Xylenes, Total	1330-20-7	0.00200	< 0.00200	
Toll Free (888) 263-8686	TPH C6-C10 (GRO)		0.0200	< 0.0200	
Fax (801)263-8687	Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	115	
email: awal@awal-labs.com	Surr: 4-Bromofluorobenzene	460-00-4	80-123	106	
	Surr: Dibromofluoromethane	1868-53-7	80-124	104	
Kyle F. Gross	Surr: Toluene-d8	2037-26-5	80-125	96.5	

Jose Rocha

QA Officer

Laboratory Director

Report Date: 12/3/2010 Page 7 of 9



LABORATORIES

ORGANIC ANALYTICAL REPORT

Client: EarthFax Engineering Contact: Galen Williams

Project: CPL Red Butte / BV-7

Lab Sample ID: 1012036-003A

AMERICAN Client Sample ID: RB-1

Collection Date: 12/2/2010 0740h **Analyzed:** 12/2/2010 1313h

Received Date: 12/2/2010 1011h

ANALYTICAL Method Used: SW8260C

Analytical Results VOAs MBTEXN/GRO by GC/MS Method 8260C/5030C

463 West 3600 South
Salt Lake City, UT

Dilution Factor

Compound

84115 (801) 263-8686

Toll Free (888) 263-8686 Fax (801)263-8687 email: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Jose Rocha QA Officer

Units: mg/L **Dilution Factor: 1 CAS** Reporting **Analytical** Result Number Limit Qual 71-43-2 0.00100 0.00296 Benzene 100-41-4 Ethylbenzene 0.00200 < 0.00200 91-20-3 Naphthalene 0.00200 < 0.00200 108-88-3 0.00685 Toluene 0.00200 Xylenes, Total 1330-20-7 0.00200 0.00296 TPH C6-C10 (GRO) 0.0200 < 0.0200 Surr: 1,2-Dichloroethane-d4 17060-07-0 77-144 115 105 Surr: 4-Bromofluorobenzene 460-00-4 80-123 Surr: Dibromofluoromethane 1868-53-7 80-124 103 Surr: Toluene-d8 2037-26-5 80-125 96.4

Report Date: 12/3/2010 Page 8 of 9



ANALYTICAL

ORGANIC ANALYTICAL REPORT

Client: EarthFax Engineering Contact: Galen Williams

Project: CPL Red Butte / BV-7

Lab Sample ID: 1012036-004A

AMERICAN Client Sample ID: RB-2

Collection Date: 12/2/2010 0800h **Analyzed:** 12/2/2010 1332h

Received Date: 12/2/2010 1011h

Method Used: SW8260C

LABORATORIES

Analytical Results

Analytical Results VOAs MBTEXN/GRO by GC/MS Method 8260C/5030C

463 West 3600 South Salt Lake City, UT	Units: mg/L Dilution Factor: 1 Compound	CAS Number	Reporting Limit	Analytical Result	Qual
84115	Benzene	71-43-2	0.00100	0.00785	
	Ethylbenzene	100-41-4	0.00200	< 0.00200	
	Naphthalene	91-20-3	0.00200	< 0.00200	
	Toluene	108-88-3	0.00200	0.0226	
(801) 263-8686	Xylenes, Total	1330-20-7	0.00200	0.0148	
Toll Free (888) 263-8686	TPH C6-C10 (GRO)		0.0200	0.0452	
Fax (801)263-8687	Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	115	
email: awal@awal-labs.com	Surr: 4-Bromofluorobenzene	460-00-4	80-123	105	
	Surr: Dibromofluoromethane	1868-53-7	80-124	104	
Kyle F. Gross	Surr: Toluene-d8	2037-26-5	80-125	96.4	

Jose Rocha

QA Officer

Laboratory Director

Report Date: 12/3/2010 Page 9 of 9



Galen Williams

American West Analytical Laboratories

WORK ORDER Summary

Client:

EarthFax Engineering

Client ID:

EAR100

Project:

CPL Red Butte / BV-7

Comments:

No Hard Copies. / Next Day Rush;

Work Order:

1012036

Page 1 of 1

12/2010

12/2/2010

WO Type:

Standard

Sample ID 1012036-001A			1000	<u>-el</u>					
	Client Sample ID	Collected Date	Received Date	Date Due	Matrix	Test Code	Sel	Storage	
	RB-1	12/2/2010 2:50:00 AM	12/2/2010 10:11:00 AM	12/3/2010	Aqueous	8260-W-PPM	V	Purge	3
1012036-001B				12/3/2010		3510-TPH-PR		Hall-TPH (liters)	2
				12/3/2010		8015-W-TPH(1L)	V	Hall-TPH (liters)	
1012036-002A	RB-2	12/2/2010 3:05:00 AM		12/3/2010		8260-W-PPM	V	Purge	
1012036-002B				12/3/2010		3510-TPH-PR		Hall-TPH (liters)	
				12/3/2010		8015-W-TPH(1L)	V	Hall-TPH (liters)	
1012036-003A	RB-1	12/2/2010 7:40:00 AM		12/3/2010		8260-W-PPM	✓	Purge	3
1012036-003B				12/3/2010		3510-TPH-PR		Hall-TPH (liters)	2
				12/3/2010		8015-W-TPH(1L)	V	Hall-TPH (liters)	
1012036-004A	RB-2	12/2/2010 8:00:00 AM		12/3/2010		8260-W-PPM	V	Purge	3
1012036-004B				12/3/2010		3510-TPH-PR		Hall-TPH (liters)	2
-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			12/3/2010		8015-W-TPH(1L)	V	Hall-TPH (liters)	

Contact:

QC Level: LEVEL I

Client EzrfhFzx Eng Address 7324 80, Urum F Midvall, WT City State Phone 801-561-1555 Fax & Contact Galen Williams	84047				<u>.</u>	46	LAB 63 We	NAL ORA	W YTI TOI 500 S lity,	UES	(8 (8 Fax (8	CHA CUS 801) 26 888) 26 01) 26	TO: 63-868 63-868	DY 36 36 37		Page Turn	 LAroi	und	Time	_ ^{of} .	<u>√0 / 2 0 3 6</u> cle One) lay 5 day	
E-mail gwilliams@ezrth	fex con								T	ESTS	REC	UIR	ED			C	QC LE	EVE	L		ABORATORY (JSE ONLY
Project Name CPL Red Bu Project Number/P.O.# BV-7 Sampler Name PSWhite	tte .		Date/Ti Collect		latrix	Number of Containers (Total)	TPH-DRO	TPH - GRO	STEXN							1	2 3+		2+ 4	2	AMPLES WERE Shipped or (har Notes: Ambient or Ch Notes:	illed
Sample ID				,			E	Ħ					_			С	OMM	ENT	s	_ 4	Received Brok (Improperly Se	en/Leaking
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RB-1			2 Dec 19 (07:40		5	v	V	~												Y Checked at Be Y Notes:	
RB-2			2 Dec 10/1	00:80	V	S	L	4	7												140163.	
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