



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 22, 2014

Ashley Ager

LTE

2243 Main Ave Suite 3

Durango, CO 81301

TEL: (970) 946-1093

FAX

RE: Samson Soil Sample

OrderNo.: 1405763

Dear Ashley Ager:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/17/2014 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued May 21, 2014.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', with a stylized flourish at the end.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1405763**

Date Reported: **5/22/2014**

CLIENT: LTE

Client Sample ID: Bonine #3 N

Project: Samson Soil Sample

Collection Date: 5/16/2014 11:40:00 AM

Lab ID: 1405763-001

Matrix: SOIL

Received Date: 5/17/2014 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/20/2014 10:48:06 AM	13217
Surr: DNOP	97.8	57.9-140		%REC	1	5/20/2014 10:48:06 AM	13217
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/20/2014 3:19:26 PM	13226
Surr: BFB	103	80-120		%REC	1	5/20/2014 3:19:26 PM	13226
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	5/20/2014 3:19:26 PM	13226
Toluene	ND	0.047		mg/Kg	1	5/20/2014 3:19:26 PM	13226
Ethylbenzene	ND	0.047		mg/Kg	1	5/20/2014 3:19:26 PM	13226
Xylenes, Total	ND	0.094		mg/Kg	1	5/20/2014 3:19:26 PM	13226
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	5/20/2014 3:19:26 PM	13226
EPA METHOD 7471: MERCURY							Analyst: MMD
Mercury	ND	0.033		mg/Kg	1	5/20/2014 4:13:18 PM	13257
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Arsenic	ND	5.1		mg/Kg	2	5/20/2014 8:42:43 AM	13243
Barium	260	0.20		mg/Kg	2	5/20/2014 8:42:43 AM	13243
Cadmium	ND	0.20		mg/Kg	2	5/20/2014 8:42:43 AM	13243
Chromium	8.6	0.61		mg/Kg	2	5/20/2014 8:42:43 AM	13243
Copper	20	0.61		mg/Kg	2	5/20/2014 8:42:43 AM	13243
Lead	8.3	0.51		mg/Kg	2	5/20/2014 8:42:43 AM	13243
Nickel	12	1.0		mg/Kg	2	5/20/2014 8:42:43 AM	13243
Selenium	ND	5.1		mg/Kg	2	5/20/2014 8:42:43 AM	13243
Silver	ND	0.51		mg/Kg	2	5/20/2014 8:42:43 AM	13243
Zinc	52	5.1		mg/Kg	2	5/20/2014 8:42:43 AM	13243
SAR SOLUBLE CATIONS							Analyst: ELS
Sodium Adsorption Ratio	13	0			1	5/21/2014 11:43:00 AM	13247
EPA METHOD 8270C: PAHS							Analyst: DAM
Naphthalene	ND	0.019		mg/Kg	1	5/20/2014 1:03:14 PM	13227
1-Methylnaphthalene	ND	0.019		mg/Kg	1	5/20/2014 1:03:14 PM	13227
2-Methylnaphthalene	ND	0.019		mg/Kg	1	5/20/2014 1:03:14 PM	13227
Acenaphthylene	ND	0.019		mg/Kg	1	5/20/2014 1:03:14 PM	13227
Acenaphthene	ND	0.019		mg/Kg	1	5/20/2014 1:03:14 PM	13227
Fluorene	ND	0.019		mg/Kg	1	5/20/2014 1:03:14 PM	13227
Phenanthrene	ND	0.019		mg/Kg	1	5/20/2014 1:03:14 PM	13227
Anthracene	ND	0.019		mg/Kg	1	5/20/2014 1:03:14 PM	13227
Fluoranthene	ND	0.019		mg/Kg	1	5/20/2014 1:03:14 PM	13227

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1405763**Date Reported: **5/22/2014****CLIENT:** LTE**Client Sample ID:** Bonine #3 N**Project:** Samson Soil Sample**Collection Date:** 5/16/2014 11:40:00 AM**Lab ID:** 1405763-001**Matrix:** SOIL**Received Date:** 5/17/2014 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: PAHS							Analyst: DAM
Pyrene	ND	0.019		mg/Kg	1	5/20/2014 1:03:14 PM	13227
Benz(a)anthracene	ND	0.019		mg/Kg	1	5/20/2014 1:03:14 PM	13227
Chrysene	ND	0.019		mg/Kg	1	5/20/2014 1:03:14 PM	13227
Benzo(b)fluoranthene	ND	0.019		mg/Kg	1	5/20/2014 1:03:14 PM	13227
Benzo(k)fluoranthene	ND	0.019		mg/Kg	1	5/20/2014 1:03:14 PM	13227
Benzo(a)pyrene	ND	0.019		mg/Kg	1	5/20/2014 1:03:14 PM	13227
Dibenz(a,h)anthracene	ND	0.019		mg/Kg	1	5/20/2014 1:03:14 PM	13227
Benzo(g,h,i)perylene	ND	0.019		mg/Kg	1	5/20/2014 1:03:14 PM	13227
Indeno(1,2,3-cd)pyrene	ND	0.019		mg/Kg	1	5/20/2014 1:03:14 PM	13227
Surr: N-hexadecane	63.0	27-106		%REC	1	5/20/2014 1:03:14 PM	13227
Surr: Benzo(e)pyrene	64.9	34.7-131		%REC	1	5/20/2014 1:03:14 PM	13227
CONDUCTANCE							Analyst: JML
Specific Conductance	2200	1.0		µmhos/cm	1	5/20/2014 3:15:00 PM	R18740
FREE LIQUID/PAINT FILTER							Analyst: TMG
Free Liquid	Negative			Pos/Neg	1	5/22/2014 10:04:00 AM	R18786

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 15
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1405763**

Date Reported: **5/22/2014**

CLIENT: LTE

Client Sample ID: Bonine #3 S

Project: Samson Soil Sample

Collection Date: 5/16/2014 12:15:00 PM

Lab ID: 1405763-002

Matrix: SOIL

Received Date: 5/17/2014 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	34	9.8		mg/Kg	1	5/20/2014 12:19:34 PM	13217
Surr: DNOP	98.8	57.9-140		%REC	1	5/20/2014 12:19:34 PM	13217
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	4.8	4.7		mg/Kg	1	5/20/2014 4:45:07 PM	13226
Surr: BFB	104	80-120		%REC	1	5/20/2014 4:45:07 PM	13226
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	5/20/2014 4:45:07 PM	13226
Toluene	0.17	0.047		mg/Kg	1	5/20/2014 4:45:07 PM	13226
Ethylbenzene	0.049	0.047		mg/Kg	1	5/20/2014 4:45:07 PM	13226
Xylenes, Total	0.28	0.094		mg/Kg	1	5/20/2014 4:45:07 PM	13226
Surr: 4-Bromofluorobenzene	110	80-120		%REC	1	5/20/2014 4:45:07 PM	13226
EPA METHOD 7471: MERCURY							Analyst: MMD
Mercury	ND	0.032		mg/Kg	1	5/20/2014 4:15:03 PM	13257
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Arsenic	ND	4.9		mg/Kg	2	5/20/2014 8:45:36 AM	13243
Barium	320	0.20		mg/Kg	2	5/20/2014 8:45:36 AM	13243
Cadmium	0.20	0.20		mg/Kg	2	5/20/2014 8:45:36 AM	13243
Chromium	8.1	0.59		mg/Kg	2	5/20/2014 8:45:36 AM	13243
Copper	21	0.59		mg/Kg	2	5/20/2014 8:45:36 AM	13243
Lead	8.9	0.49		mg/Kg	2	5/20/2014 8:45:36 AM	13243
Nickel	11	0.98		mg/Kg	2	5/20/2014 8:45:36 AM	13243
Selenium	ND	4.9		mg/Kg	2	5/20/2014 8:45:36 AM	13243
Silver	ND	0.49		mg/Kg	2	5/20/2014 8:45:36 AM	13243
Zinc	48	4.9		mg/Kg	2	5/20/2014 8:45:36 AM	13243
SAR SOLUBLE CATIONS							Analyst: ELS
Sodium Adsorption Ratio	8.8	0			1	5/21/2014 11:43:00 AM	13247
EPA METHOD 8270C: PAHS							Analyst: DAM
Naphthalene	0.11	0.020		mg/Kg	1	5/20/2014 1:26:25 PM	13227
Acenaphthene	ND	0.020		mg/Kg	1	5/20/2014 1:26:25 PM	13227
Fluorene	0.077	0.020		mg/Kg	1	5/20/2014 1:26:25 PM	13227
Anthracene	0.020	0.020		mg/Kg	1	5/20/2014 1:26:25 PM	13227
Fluoranthene	ND	0.020		mg/Kg	1	5/20/2014 1:26:25 PM	13227
Pyrene	ND	0.020		mg/Kg	1	5/20/2014 1:26:25 PM	13227
Benz(a)anthracene	ND	0.020		mg/Kg	1	5/20/2014 1:26:25 PM	13227
Chrysene	0.028	0.020		mg/Kg	1	5/20/2014 1:26:25 PM	13227
Benzo(b)fluoranthene	ND	0.020		mg/Kg	1	5/20/2014 1:26:25 PM	13227

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1405763**

Date Reported: **5/22/2014**

CLIENT: LTE

Client Sample ID: Bonine #3 S

Project: Samson Soil Sample

Collection Date: 5/16/2014 12:15:00 PM

Lab ID: 1405763-002

Matrix: SOIL

Received Date: 5/17/2014 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: PAHS							Analyst: DAM
Benzo(k)fluoranthene	ND	0.020		mg/Kg	1	5/20/2014 1:26:25 PM	13227
Benzo(a)pyrene	ND	0.020		mg/Kg	1	5/20/2014 1:26:25 PM	13227
Dibenz(a,h)anthracene	ND	0.020		mg/Kg	1	5/20/2014 1:26:25 PM	13227
Indeno(1,2,3-cd)pyrene	ND	0.020		mg/Kg	1	5/20/2014 1:26:25 PM	13227
Surr: Benzo(e)pyrene	55.1	34.7-131		%REC	1	5/20/2014 1:26:25 PM	13227
Surr: N-hexadecane	73.5	27-106		%REC	1	5/20/2014 1:26:25 PM	13227
CONDUCTANCE							Analyst: JML
Specific Conductance	1400	1.0		µmhos/cm	1	5/20/2014 3:15:00 PM	R18740
FREE LIQUID/PAINT FILTER							Analyst: TMG
Free Liquid	Negative			Pos/Neg	1	5/22/2014 10:04:00 AM	R18786

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 4 of 15
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1405763**

Date Reported: **5/22/2014**

CLIENT: LTE

Client Sample ID: Background

Project: Samson Soil Sample

Collection Date: 5/16/2014 11:45:00 AM

Lab ID: 1405763-003

Matrix: SOIL

Received Date: 5/17/2014 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Arsenic	2.8	2.6		mg/Kg	1	5/20/2014 8:46:58 AM	13243
SAR SOLUBLE CATIONS							Analyst: ELS
Sodium Adsorption Ratio	3.0	0			1	5/21/2014 11:43:00 AM	13247
CONDUCTANCE							Analyst: JML
Specific Conductance	810	1.0		µmhos/cm	1	5/20/2014 3:15:00 PM	R18740
FREE LIQUID/PAINT FILTER							Analyst: TMG
Free Liquid	negative			Pos/Neg	1	5/21/2014 8:30:00 AM	R18752
SM4500-H+B: PH							Analyst: TMG
pH	7.91	1.68		pH Units	1	5/21/2014 9:00:00 AM	R18753

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 5 of 15
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			



12065 Lebanon Rd.
Mt. Juliet, TN 37122
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1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

May 21, 2014

Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

Date Received : May 20, 2014
Description :
Sample ID : 1405763-001B BIONINE #3 N
Collected By :
Collection Date : 05/16/14 11:40

ESC Sample # : L699936-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	10.	mg/kg	3060A/7196A	05/21/14	5
ORP	72.		mV	2580 B-2011	05/21/14	1
pH	10.		su	9045D	05/20/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 05/21/14 14:08 Printed: 05/21/14 14:08

L699936-01 (PH) - 10@22.5c

L699936-01 (CR6) - diluted due to sample color



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REPORT OF ANALYSIS

May 21, 2014

Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

Date Received : May 20, 2014
Description :
Sample ID : 1405763-002B BONINE #3 N
Collected By :
Collection Date : 05/16/14 11:40

ESC Sample # : L699936-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	10.	mg/kg	3060A/7196A	05/21/14	5
ORP	83.		mV	2580 B-2011	05/21/14	1
pH	9.6		su	9045D	05/20/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 05/21/14 14:08 Printed: 05/21/14 14:08

L699936-02 (CR6) - diluted due to sample color

L699936-02 (PH) - 9.6@21.9c



YOUR LAB OF CHOICE

Hall Environmental Analysis Laboratory

4901 Hawkins NE

Albuquerque, NM 87109

Quality Assurance Report
Level II

L699936

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
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Est. 1970

May 21, 2014

Analyte	Result	Laboratory Blank Units % Rec	Limit	Batch	Date Analyzed
Chromium, Hexavalent	< 2	mg/kg		WG721746	05/21/14 12:12

Analyte	Units	Result	Duplicate Duplicate	RPD	Limit	Ref Samp	Batch
pH	su	11.0	11.0	0.0	1	L698952-01	WG721943
pH	su	9.60	9.60	0.209	1	L699936-02	WG721943
ORP	mV	48.0	46.0	4.26	20	L699392-01	WG722044
ORP	mV	65.0	62.0	4.72	20	L699536-05	WG722044
Chromium, Hexavalent	mg/kg	0.0	0.0	0.0	20	L699936-02	WG721746
Chromium, Hexavalent	mg/kg	3.30	3.20	3.08	20	L699536-01	WG721746

Analyte	Units	Laboratory Control Sample Known Val Result	% Rec	Limit	Batch
pH	su	5.93 6.00	101.	98.3-101.7	WG721943
ORP	mV	100 110.	110.	90-110	WG722044
Chromium, Hexavalent	mg/kg	125 146.	117.	80-120	WG721746

Analyte	Units	Result	Laboratory Control Sample Duplicate Ref %Rec	Limit	RPD	Limit	Batch
pH	su	6.00	6.00 101.	98.3-101.7	0.0	20	WG721943
ORP	mV	110.	110. 110.	90-110	0.0	20	WG722044
Chromium, Hexavalent	mg/kg	146.	146. 117.	80-120	0.0	20	WG721746

Analyte	Units	MS Res	Matrix Spike Ref Res TV	% Rec	Limit	Ref Samp	Batch
Chromium, Hexavalent	mg/kg	21.5	0.0 20	110.	75-125	L699553-01	WG721746

Analyte	Units	MSD	Matrix Spike Duplicate Ref %Rec	Limit	RPD	Limit	Ref Samp	Batch
Chromium, Hexavalent	mg/kg	21.6	21.5 108.	75-125	0.464	20	L699553-01	WG721746

Batch number /Run number / Sample number cross reference

WG721943: R2925353: L699936-01 02
WG722044: R2925487: L699936-01 02
WG721746: R2925568: L699936-01 02

* * Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405763

22-May-14

Client: LTE
Project: Samson Soil Sample

Sample ID	MB-13217		SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 13217		RunNo: 18691					
Prep Date:	5/19/2014		Analysis Date: 5/19/2014		SeqNo: 540085		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.4		10.00		93.6	57.9	140			

Sample ID	LCS-13217		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 13217		RunNo: 18691					
Prep Date:	5/19/2014		Analysis Date: 5/19/2014		SeqNo: 540086		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	60.8	145			
Surr: DNOP	4.4		5.000		87.1	57.9	140			

Sample ID	1405763-001AMS		SampType: MS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	Bonine #3 N		Batch ID: 13217		RunNo: 18719					
Prep Date:	5/19/2014		Analysis Date: 5/20/2014		SeqNo: 540944		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.9	49.60	0	103	40.1	152			
Surr: DNOP	5.2		4.960		104	57.9	140			

Sample ID	1405763-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	Bonine #3 N		Batch ID:	13217		RunNo:	18719				
Prep Date:	5/19/2014		Analysis Date:	5/20/2014		SeqNo:	540945		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	54	9.9	49.31	0	109	40.1	152	4.33	32.1		
Surr: DNOP	4.9		4.931		98.9	57.9	140	0	0		

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405763

22-May-14

Client: LTE
Project: Samson Soil Sample

Sample ID	MB-13226		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 13226		RunNo: 18746					
Prep Date:	5/19/2014		Analysis Date: 5/20/2014		SeqNo: 541337		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	820		1000		82.3	80	120			

Sample ID	LCS-13226		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 13226		RunNo: 18746					
Prep Date:	5/19/2014		Analysis Date: 5/20/2014		SeqNo: 541338		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.8	71.7	134			
Surr: BFB	910		1000		91.0	80	120			

Sample ID	1405763-001AMS		SampType: MS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	Bonine #3 N		Batch ID: 13226		RunNo: 18746					
Prep Date:	5/19/2014		Analysis Date: 5/20/2014		SeqNo: 541346		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.7	23.61	0	104	69.5	145			
Surr: BFB	960		944.3		102	80	120			

Sample ID	1405763-001AMSD		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	Bonine #3 N		Batch ID: 13226		RunNo: 18746					
Prep Date:	5/19/2014		Analysis Date: 5/20/2014		SeqNo: 541347		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.7	23.67	0	123	69.5	145	16.7	20	
Surr: BFB	960		947.0		101	80	120	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405763

22-May-14

Client: LTE
Project: Samson Soil Sample

Sample ID MB-13226	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 13226		RunNo: 18746							
Prep Date: 5/19/2014	Analysis Date: 5/20/2014		SeqNo: 541368		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.1	80	120			

Sample ID LCS-13226	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 13226		RunNo: 18746							
Prep Date: 5/19/2014	Analysis Date: 5/20/2014		SeqNo: 541370		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.050	1.000	0	118	80	120			
Toluene	1.1	0.050	1.000	0	108	80	120			
Ethylbenzene	1.1	0.050	1.000	0	107	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID 1405763-002AMS	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: Bonine #3 S	Batch ID: 13226		RunNo: 18746							
Prep Date: 5/19/2014	Analysis Date: 5/20/2014		SeqNo: 541383		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.047	0.9390	0.02286	119	67.4	135			
Toluene	1.2	0.047	0.9390	0.1729	113	72.6	135			
Ethylbenzene	1.1	0.047	0.9390	0.04906	108	69.4	143			
Xylenes, Total	3.4	0.094	2.817	0.2772	110	70.8	144			
Surr: 4-Bromofluorobenzene	1.1		0.9390		112	80	120			

Sample ID 1405763-002AMSD	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: Bonine #3 S	Batch ID: 13226		RunNo: 18746							
Prep Date: 5/19/2014	Analysis Date: 5/20/2014		SeqNo: 541384		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.047	0.9355	0.02286	91.4	67.4	135	26.3	20	R
Toluene	0.99	0.047	0.9355	0.1729	87.4	72.6	135	21.9	20	R
Ethylbenzene	0.83	0.047	0.9355	0.04906	83.5	69.4	143	24.8	20	R
Xylenes, Total	2.6	0.094	2.806	0.2772	83.5	70.8	144	25.6	20	R
Surr: 4-Bromofluorobenzene	1.0		0.9355		112	80	120	0	0	

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405763

22-May-14

Client: LTE
Project: Samson Soil Sample

Sample ID	mb-13227		SampType:	MBLK		TestCode:	EPA Method 8270C: PAHs			
Client ID:	PBS		Batch ID:	13227		RunNo:	18748			
Prep Date:	5/19/2014		Analysis Date:	5/20/2014		SeqNo:	541423		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.020								
1-Methylnaphthalene	ND	0.020								
2-Methylnaphthalene	ND	0.020								
Acenaphthylene	ND	0.020								
Acenaphthene	ND	0.020								
Fluorene	ND	0.020								
Phenanthrene	ND	0.020								
Anthracene	ND	0.020								
Fluoranthene	ND	0.020								
Pyrene	ND	0.020								
Benz(a)anthracene	ND	0.020								
Chrysene	ND	0.020								
Benzo(b)fluoranthene	ND	0.020								
Benzo(k)fluoranthene	ND	0.020								
Benzo(a)pyrene	ND	0.020								
Dibenz(a,h)anthracene	ND	0.020								
Benzo(g,h,i)perylene	ND	0.020								
Indeno(1,2,3-cd)pyrene	ND	0.020								
Surr: N-hexadecane	0.85		1.460		57.9	27	106			
Surr: Benzo(e)pyrene	0.20		0.3300		59.3	34.7	131			

Sample ID	lcs-13227		SampType:	LCS		TestCode:	EPA Method 8270C: PAHs			
Client ID:	LCSS		Batch ID:	13227		RunNo:	18748			
Prep Date:	5/19/2014		Analysis Date:	5/20/2014		SeqNo:	541429		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.21	0.020	0.3300	0	64.7	50.1	116			
1-Methylnaphthalene	0.21	0.020	0.3300	0	64.8	50.8	121			
2-Methylnaphthalene	0.20	0.020	0.3300	0	59.5	50.4	120			
Acenaphthylene	0.22	0.020	0.3300	0	66.0	53	112			
Acenaphthene	0.23	0.020	0.3300	0	69.3	51.4	112			
Fluorene	0.24	0.020	0.3300	0	72.8	51	116			
Phenanthrene	0.22	0.020	0.3300	0	65.8	46.3	120			
Anthracene	0.22	0.020	0.3300	0	65.4	46.4	118			
Fluoranthene	0.23	0.020	0.3300	0	69.4	46.4	123			
Pyrene	0.22	0.020	0.3300	0	66.3	43.3	122			
Benz(a)anthracene	0.22	0.020	0.3300	0	66.8	44.3	118			
Chrysene	0.22	0.020	0.3300	0	66.2	45.5	116			
Benzo(b)fluoranthene	0.22	0.020	0.3300	0	66.8	50.5	123			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405763

22-May-14

Client: LTE
Project: Samson Soil Sample

Sample ID	lcs-13227		SampType: LCS		TestCode: EPA Method 8270C: PAHs					
Client ID:	LCSS		Batch ID: 13227		RunNo: 18748					
Prep Date:	5/19/2014		Analysis Date: 5/20/2014		SeqNo: 541429		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.21	0.020	0.3300	0	63.2	49.7	117			
Benzo(a)pyrene	0.20	0.020	0.3300	0	61.7	50.8	111			
Dibenz(a,h)anthracene	0.24	0.020	0.3300	0	71.8	49.8	127			
Benzo(g,h,i)perylene	0.22	0.020	0.3300	0	66.3	46.4	122			
Indeno(1,2,3-cd)pyrene	0.23	0.020	0.3300	0	69.2	50.1	120			
Surr: N-hexadecane	0.83		1.460		56.6	27	106			
Surr: Benzo(e)pyrene	0.18		0.3300		54.3	34.7	131			

Sample ID	1405763-002ams		SampType: MS		TestCode: EPA Method 8270C: PAHs					
Client ID:	Bonine #3 S		Batch ID: 13227		RunNo: 18748					
Prep Date:	5/19/2014		Analysis Date: 5/20/2014		SeqNo: 541436		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.36	0.020	0.3251	0.1083	76.8	42.6	115			
1-Methylnaphthalene	0.42	0.020	0.3251	0.1491	83.9	42.4	122			
2-Methylnaphthalene	0.59	0.020	0.3251	0.2276	110	45.2	120			
Acenaphthylene	0.19	0.020	0.3251	0	58.8	39.7	116			
Acenaphthene	0.21	0.020	0.3251	0.01093	61.6	41.4	119			
Fluorene	0.27	0.020	0.3251	0.07654	61.0	44.2	123			
Phenanthrene	0.38	0.020	0.3251	0.1276	78.1	48	120			
Anthracene	0.21	0.020	0.3251	0.02021	59.6	43.8	120			
Fluoranthene	0.22	0.020	0.3251	0.01756	62.2	54	125			
Pyrene	0.23	0.020	0.3251	0	70.3	55	120			
Benz(a)anthracene	0.23	0.020	0.3251	0	72.1	50.9	125			
Chrysene	0.25	0.020	0.3251	0.02750	67.6	45.3	127			
Benzo(b)fluoranthene	0.21	0.020	0.3251	0.006958	62.8	49.3	131			
Benzo(k)fluoranthene	0.21	0.020	0.3251	0	63.3	50.6	127			
Benzo(a)pyrene	0.21	0.020	0.3251	0	63.4	53.8	117			
Dibenz(a,h)anthracene	0.22	0.020	0.3251	0	66.4	52	130			
Benzo(g,h,i)perylene	0.19	0.020	0.3251	0	58.6	49.4	123			
Indeno(1,2,3-cd)pyrene	0.20	0.020	0.3251	0	60.7	49.5	124			
Surr: N-hexadecane	1.2		1.438		82.5	27	106			
Surr: Benzo(e)pyrene	0.19		0.3251		59.8	34.7	131			

Sample ID	1405763-002amsd		SampType: MSD		TestCode: EPA Method 8270C: PAHs					
Client ID:	Bonine #3 S		Batch ID: 13227		RunNo: 18748					
Prep Date:	5/19/2014		Analysis Date: 5/20/2014		SeqNo: 541438		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.31	0.020	0.3249	0.1083	61.0	42.6	115	15.5	29.7	

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405763

22-May-14

Client: LTE
Project: Samson Soil Sample

Sample ID	1405763-002amsd	SampType: MSD		TestCode: EPA Method 8270C: PAHs						
Client ID:	Bonine #3 S	Batch ID: 13227		RunNo: 18748						
Prep Date:	5/19/2014	Analysis Date: 5/20/2014		SeqNo: 541438		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.32	0.020	0.3249	0.1491	53.8	42.4	122	26.3	20	R
2-Methylnaphthalene	0.39	0.020	0.3249	0.2276	50.6	45.2	120	39.6	21.2	R
Acenaphthylene	0.23	0.020	0.3249	0	69.4	39.7	116	16.5	20	
Acenaphthene	0.24	0.020	0.3249	0.01093	71.7	41.4	119	14.4	20.5	
Fluorene	0.30	0.020	0.3249	0.07654	67.8	44.2	123	7.63	20	
Phenanthrene	0.39	0.020	0.3249	0.1276	81.1	48	120	2.48	22	
Anthracene	0.26	0.020	0.3249	0.02021	73.9	43.8	120	19.5	26.6	
Fluoranthene	0.27	0.020	0.3249	0.01756	77.4	54	125	20.2	23.7	
Pyrene	0.24	0.020	0.3249	0	73.3	55	120	4.15	29.3	
Benz(a)anthracene	0.26	0.020	0.3249	0	79.0	50.9	125	9.03	25.4	
Chrysene	0.25	0.020	0.3249	0.02750	67.5	45.3	127	0.199	27.6	
Benzo(b)fluoranthene	0.25	0.020	0.3249	0.006958	74.0	49.3	131	15.8	20	
Benzo(k)fluoranthene	0.24	0.020	0.3249	0	74.6	50.6	127	16.3	31.3	
Benzo(a)pyrene	0.24	0.020	0.3249	0	74.6	53.8	117	16.2	22.1	
Dibenz(a,h)anthracene	0.26	0.020	0.3249	0	79.6	52	130	18.1	21.2	
Benzo(g,h,i)perylene	0.23	0.020	0.3249	0	71.6	49.4	123	20.0	25.9	
Indeno(1,2,3-cd)pyrene	0.23	0.020	0.3249	0	72.2	49.5	124	17.3	20.4	
Surr: N-hexadecane	1.1		1.437		74.4	27	106	0	0	
Surr: Benzo(e)pyrene	0.21		0.3249		63.6	34.7	131	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405763

22-May-14

Client: LTE
Project: Samson Soil Sample

Sample ID	1405763-001ADUP	SampType:	DUP	TestCode:	CONDUCTANCE					
Client ID:	Bonine #3 N	Batch ID:	R18740	RunNo:	18740					
Prep Date:		Analysis Date:	5/20/2014	SeqNo:	541111	Units:	µmhos/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Specific Conductance	2100	1.0						4.44	20	

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405763

22-May-14

Client: LTE
Project: Samson Soil Sample

Sample ID	MB-13257		SampType: MBLK		TestCode: EPA Method 7471: Mercury					
Client ID:	PBS		Batch ID: 13257		RunNo: 18739					
Prep Date:	5/20/2014		Analysis Date: 5/20/2014		SeqNo: 541094		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID	LCS-13257		SampType: LCS		TestCode: EPA Method 7471: Mercury					
Client ID:	LCSS		Batch ID: 13257		RunNo: 18739					
Prep Date:	5/20/2014		Analysis Date: 5/20/2014		SeqNo: 541095		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.16	0.033	0.1667	0	98.8	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405763

22-May-14

Client: LTE
Project: Samson Soil Sample

Sample ID	MB-13243	SampType:	MBLK	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	PBS	Batch ID:	13243	RunNo:	18715					
Prep Date:	5/19/2014	Analysis Date:	5/20/2014	SeqNo:	540630	Units:	mg/Kg			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	2.5								
Barium	ND	0.10								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Copper	ND	0.30								
Lead	ND	0.25								
Nickel	ND	0.50								
Selenium	ND	2.5								
Silver	ND	0.25								
Zinc	ND	2.5								

Sample ID	LCS-13243	SampType:	LCS	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	LCSS	Batch ID:	13243	RunNo:	18715					
Prep Date:	5/19/2014	Analysis Date:	5/20/2014	SeqNo:	540631	Units:	mg/Kg			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	24	2.5	25.00	0	95.3	80	120			
Barium	24	0.10	25.00	0	97.6	80	120			
Cadmium	24	0.10	25.00	0	97.3	80	120			
Chromium	25	0.30	25.00	0	99.1	80	120			
Copper	25	0.30	25.00	0	102	80	120			
Lead	23	0.25	25.00	0	90.3	80	120			
Nickel	24	0.50	25.00	0	94.5	80	120			
Selenium	23	2.5	25.00	0	90.9	80	120			
Silver	4.8	0.25	5.000	0	95.8	80	120			
Zinc	24	2.5	25.00	0	96.6	80	120			

Sample ID	1405763-003AMS	SampType:	MS	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	Background	Batch ID:	13243	RunNo:	18715					
Prep Date:	5/19/2014	Analysis Date:	5/20/2014	SeqNo:	540649	Units:	mg/Kg			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	23	2.6	25.54	2.787	77.6	75	125			

Sample ID	1405763-003AMSD	SampType:	MSD	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	Background	Batch ID:	13243	RunNo:	18715					
Prep Date:	5/19/2014	Analysis Date:	5/20/2014	SeqNo:	540652	Units:	mg/Kg			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	25	2.6	25.73	2.787	87.7	75	125	11.4	20	

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405763

22-May-14

Client: LTE
Project: Samson Soil Sample

Sample ID	1405763-002ADUP	SampType:	DUP	TestCode:	FREE LIQUID/PAINT FILTER					
Client ID:	Bonine #3 S	Batch ID:	R18786	RunNo:	18786					
Prep Date:		Analysis Date:	5/22/2014	SeqNo:	542431	Units:	Pos/Neg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Free Liquid	Negative									

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |



Hall Environmental Analysis Laboratory
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Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: LTE

Work Order Number: 1405763

RcptNo: 1

Received by/date:

Logged By: Ashley Gallegos

5/17/2014 10:45:00 AM

Completed By: Ashley Gallegos

5/17/2014 11:23:27 AM

Reviewed By:

ISO

05/19/14

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

