



*Colorado Operations
792 Buckhorn Dr.
Rifle, CO 81650*

Valley Farms B Site Investigation Rem# 7726

Summary of Findings Report

Colorado Operations

**Piceance Basin
Garfield County, CO**

March 2016

TABLE OF CONTENTS

Introduction..... 1

Site Investigation 1

Conclusion 1

LIST OF TABLES

Table 1: Borehole Analytical Results

LIST OF FIGURES

Figure 1: Site Investigation Borehole Location Map

LIST OF APPENDICES

Appendix 1: Site Investigation Borehole Confirmation Raw Analytical Data

Introduction

On January 26, 2013 a release on the Valley Farms B location occurred under the previous owner & operator, Antero Resources, and was reported to the Colorado Oil & Gas Conservation Commission (COGCC) via Form 19, where a spill tracking # (2231929) was assigned. The release occurred due to equipment failure on a water drain valve located on Tank #2. It was estimated that 52 bbls of produced water had leaked out into the secondary containment.

During the initial response, it was discovered that a hole in the lined secondary containment was present on the eastern side and had allowed produced water to leak out onto the pad. Due to snow accumulation on the pad and around the secondary containment, the volume that leaked out of secondary containment could not be determined. As described in the Form 19, vac trucks were used to recover fluids released within, and around the secondary containment. It was estimated that 100% of the produced water was recovered, as all of the liquids were recovered, including water from precipitation events. A full vac truck (80 bbls) recovered liquids outside of the containment, as well as within. The only staining present was on the gravel within the secondary containment. As liquids accumulated within the secondary containment from precipitation events, vac trucks were used to pull the water and any sheen present.

During discussions with the COGCC, a Site Investigation & Remediation Plan (Form 27) was requested to determine the full extent of impacts that may be present on the pad due to the hole in the secondary containment liner.

Ursa Operating Company (Ursa) acquired the asset in March of 2013. The Form 27 was submitted on April 14, 2013, outlining the proposed site investigation. The Form 27 was approved on April 17, 2013 and a remediation number was assigned (Rem# 7726).

Site Investigation

Site investigation activities commenced on June 12, 2013 by completing five (5) boreholes around the outside of the secondary containment (see Figure 1). A Photo Ionizing Detection (PID) and a PetroFlag Hydrocarbon Analyzer (Petroflag) was used to guide the site investigation process. Samples were collected in 18 inch interval via split spoon sampling and field screened to determine hydrocarbon concentrations.

Samples were collected and submitted to ALS Environmental Laboratory in Holland, Michigan from each borehole interval that contained the highest field screening reading. Sampling depth vary from each borehole and demonstrate an accurate and representative site investigation of the underlying soils. Analytical results are outlined in Table 1.

Conclusion

Confirmation analytical results indicated that no hydrocarbon impacts are present that exceed COGCC Table 910-1 thresholds. Discussions with the COGCC during the time of reporting and submittal of the Form 27 indicated that a reduced listed of constituents was allowed, removing the need for metals analysis as the produced water did not contain metal concentrations.

As no underlying impacts were discovered below the ground surface and no impacts were observed on the pad due to vac trucks recovering all liquids within and around the secondary containment upon initial response. Ursa is requesting that the Form 27 & Remediation # 7726 be closed and no further action (NFA) be issued.

Facility Name: Valley Farm B
Remediation: 7726
Location ID: 311643

Name of Operator: Ursa Operating Company LLC COGCC
Latitude: 39.528275 Longitude -107.667019
Location (QtrQty, Sec, Twp, Rng, Meridian): SENE, Sec 16, T6S, R92W

Operator # 10447
County: Garfield

Table 1: Initial Sampling Analytical Results

Valley Farm B - Borehole Sampling Data	COGCC Table 910-1 Standard	Sample ID				
		BH 1 @ 5-6.5ft	BH 2 2-3.5ft	BH 3 @ 10-11.5ft	BH 4 @ 7-8.5FT	BH 5 @ 2-3.5ft
Analyte						
DRO (C10-C28)	500	29	40	120	25	190
GRO (C6-C10)		ND	ND	ND	ND	ND
Anthracene	1000	ND	ND	ND	ND	ND
Acenaphthene	1000	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.22	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.022	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.22	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	2.2	ND	ND	ND	ND	ND
Chrysene	22	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.022	ND	ND	ND	ND	ND
Fluoranthene	1000	ND	ND	ND	ND	ND
Fluorene	1000	ND	ND	ND	ND	ND
Indeno(1,2,3,c,d)pyrene	0.022	ND	ND	ND	ND	ND
Naphthalene	23	ND	ND	ND	ND	ND
Pyrene	1000	ND	ND	ND	ND	ND
Benzene	0.17	ND	ND	ND	ND	ND
Ethylbenzene	100	ND	ND	ND	ND	ND
Toluene	85	ND	ND	ND	ND	ND
Xylenes, Total	175	ND	ND	ND	ND	ND
Arsenic	0.39	-	-	-	-	-
Barium	15,000	-	-	-	-	-
Cadmium	70	-	-	-	-	-
Chromium (III)	120,000	-	-	-	-	-
Chromium (VI)	23	-	-	-	-	-
Copper	3100	-	-	-	-	-
Lead	400	-	-	-	-	-
Mercury	23	-	-	-	-	-
Nickel	1,600	-	-	-	-	-
Selenium	390	-	-	-	-	-
Silver	390	-	-	-	-	-
Zinc	23,000	-	-	-	-	-
pH	6 to 9	-	-	-	-	-
Sodium Adsorption Ratio (SAR)	<12 ⁵	-	-	-	-	-
Specific Conductance	4	-	-	-	-	-

Note: All results are presented in mg/kg, unless otherwise noted.
Concentrations exceeding COGCC Table 910-1 are highlighted in yellow.

Figure 1 - Borehole Location Map



APPENDICES

APPENDIX 1: Raw Confirmation Analytical Data



26-Jun-2013

Kris Rowe
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Ursa - Valley Farm B - Containment Eval. 6/12/13**

Work Order: **1306761**

Dear Kris,

ALS Environmental received 5 samples on 19-Jun-2013 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 19.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Bill Carey

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Ursa - Valley Farm B - Containment Eval. 6/12/13
Work Order: 1306761

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1306761-01	BH 1 @ 5-6.5 ft	Soil		6/12/2013 15:30	6/19/2013 09:30	<input type="checkbox"/>
1306761-02	BH 2 @ 2-3.5 ft	Soil		6/12/2013 15:45	6/19/2013 09:30	<input type="checkbox"/>
1306761-03	BH 3 @ 10-11.5 ft	Soil		6/12/2013 16:00	6/19/2013 09:30	<input type="checkbox"/>
1306761-04	BH 4 @ 7-8.5 ft	Soil		6/12/2013 16:15	6/19/2013 09:30	<input type="checkbox"/>
1306761-05	BH 5 @ 2-3.5 ft	Soil		6/12/2013 16:30	6/19/2013 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Ursa - Valley Farm B - Containment Eval. 6/12/13
WorkOrder: 1306761

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
TDL	Target Detection Limit
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: 26-Jun-13

Client: HRL Compliance Solutions

Project: Ursa - Valley Farm B - Containment Eval. 6/12/13

Work Order: 1306761

Sample ID: BH 1 @ 5-6.5 ft

Lab ID: 1306761-01

Collection Date: 6/12/2013 03:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	29		SW8015M		Prep Date: 6/20/2013	Analyst: RD
			4.3	mg/Kg-dry	1	6/21/2013 01:01 PM
Surr: 4-Terphenyl-d14	45.1		39-115	%REC	1	6/21/2013 01:01 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015			Analyst: RD
			2.7	mg/Kg-dry	50	6/20/2013 06:19 PM
Surr: Toluene-d8	103		50-150	%REC	50	6/20/2013 06:19 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
SW8270					Prep Date: 6/20/2013	Analyst: RM
Acenaphthene	ND		16	µg/Kg-dry	1	6/22/2013 01:16 AM
Acenaphthylene	ND		31	µg/Kg-dry	1	6/22/2013 01:16 AM
Anthracene	ND		16	µg/Kg-dry	1	6/22/2013 01:16 AM
Benzo(a)anthracene	ND		18	µg/Kg-dry	1	6/22/2013 01:16 AM
Benzo(a)pyrene	ND		18	µg/Kg-dry	1	6/22/2013 01:16 AM
Benzo(b)fluoranthene	ND		19	µg/Kg-dry	1	6/22/2013 01:16 AM
Benzo(g,h,i)perylene	ND		29	µg/Kg-dry	1	6/22/2013 01:16 AM
Benzo(k)fluoranthene	ND		19	µg/Kg-dry	1	6/22/2013 01:16 AM
Chrysene	ND		16	µg/Kg-dry	1	6/22/2013 01:16 AM
Dibenzo(a,h)anthracene	ND		19	µg/Kg-dry	1	6/22/2013 01:16 AM
Fluoranthene	ND		16	µg/Kg-dry	1	6/22/2013 01:16 AM
Fluorene	ND		16	µg/Kg-dry	1	6/22/2013 01:16 AM
Indeno(1,2,3-cd)pyrene	ND		21	µg/Kg-dry	1	6/22/2013 01:16 AM
Naphthalene	ND		16	µg/Kg-dry	1	6/22/2013 01:16 AM
Pyrene	ND		16	µg/Kg-dry	1	6/22/2013 01:16 AM
Surr: 2-Fluorobiphenyl	73.0		12-100	%REC	1	6/22/2013 01:16 AM
Surr: 4-Terphenyl-d14	117		25-137	%REC	1	6/22/2013 01:16 AM
Surr: Nitrobenzene-d5	65.9		37-107	%REC	1	6/22/2013 01:16 AM
VOLATILE ORGANIC COMPOUNDS						
SW8260					Prep Date: 6/19/2013	Analyst: AK
Benzene	ND		32	µg/Kg-dry	1	6/20/2013 07:14 AM
Ethylbenzene	ND		32	µg/Kg-dry	1	6/20/2013 07:14 AM
m,p-Xylene	ND		64	µg/Kg-dry	1	6/20/2013 07:14 AM
o-Xylene	ND		32	µg/Kg-dry	1	6/20/2013 07:14 AM
Toluene	ND		32	µg/Kg-dry	1	6/20/2013 07:14 AM
Xylenes, Total	ND		96	µg/Kg-dry	1	6/20/2013 07:14 AM
Surr: 1,2-Dichloroethane-d4	99.8		70-130	%REC	1	6/20/2013 07:14 AM
Surr: 4-Bromofluorobenzene	98.2		70-130	%REC	1	6/20/2013 07:14 AM
Surr: Dibromofluoromethane	95.2		70-130	%REC	1	6/20/2013 07:14 AM
Surr: Toluene-d8	98.6		70-130	%REC	1	6/20/2013 07:14 AM
MOISTURE						
A2540 G						Analyst: BD
Moisture	6.3		0.050	% of sample	1	6/19/2013 03:10 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 26-Jun-13

Client: HRL Compliance Solutions

Project: Ursa - Valley Farm B - Containment Eval. 6/12/13

Work Order: 1306761

Sample ID: BH 2 @ 2-3.5 ft

Lab ID: 1306761-02

Collection Date: 6/12/2013 03:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 6/20/2013	Analyst: RD
DRO (C10-C28)	40		4.4	mg/Kg-dry	1	6/21/2013 06:31 PM
Surr: 4-Terphenyl-d14	49.8		39-115	%REC	1	6/21/2013 06:31 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015			Analyst: RD
GRO (C6-C10)	ND		2.7	mg/Kg-dry	50	6/20/2013 06:44 PM
Surr: Toluene-d8	103		50-150	%REC	50	6/20/2013 06:44 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 6/20/2013	Analyst: RM
Acenaphthene	ND		16	µg/Kg-dry	1	6/22/2013 01:35 AM
Acenaphthylene	ND		32	µg/Kg-dry	1	6/22/2013 01:35 AM
Anthracene	ND		16	µg/Kg-dry	1	6/22/2013 01:35 AM
Benzo(a)anthracene	ND		18	µg/Kg-dry	1	6/22/2013 01:35 AM
Benzo(a)pyrene	ND		18	µg/Kg-dry	1	6/22/2013 01:35 AM
Benzo(b)fluoranthene	ND		19	µg/Kg-dry	1	6/22/2013 01:35 AM
Benzo(g,h,i)perylene	ND		30	µg/Kg-dry	1	6/22/2013 01:35 AM
Benzo(k)fluoranthene	ND		19	µg/Kg-dry	1	6/22/2013 01:35 AM
Chrysene	ND		16	µg/Kg-dry	1	6/22/2013 01:35 AM
Dibenzo(a,h)anthracene	ND		19	µg/Kg-dry	1	6/22/2013 01:35 AM
Fluoranthene	ND		16	µg/Kg-dry	1	6/22/2013 01:35 AM
Fluorene	ND		16	µg/Kg-dry	1	6/22/2013 01:35 AM
Indeno(1,2,3-cd)pyrene	ND		21	µg/Kg-dry	1	6/22/2013 01:35 AM
Naphthalene	ND		16	µg/Kg-dry	1	6/22/2013 01:35 AM
Pyrene	ND		16	µg/Kg-dry	1	6/22/2013 01:35 AM
Surr: 2-Fluorobiphenyl	76.7		12-100	%REC	1	6/22/2013 01:35 AM
Surr: 4-Terphenyl-d14	104		25-137	%REC	1	6/22/2013 01:35 AM
Surr: Nitrobenzene-d5	72.7		37-107	%REC	1	6/22/2013 01:35 AM
VOLATILE ORGANIC COMPOUNDS						
			SW8260		Prep Date: 6/19/2013	Analyst: AK
Benzene	ND		32	µg/Kg-dry	1	6/21/2013 08:19 AM
Ethylbenzene	ND		32	µg/Kg-dry	1	6/21/2013 08:19 AM
m,p-Xylene	ND		64	µg/Kg-dry	1	6/21/2013 08:19 AM
o-Xylene	ND		32	µg/Kg-dry	1	6/21/2013 08:19 AM
Toluene	ND		32	µg/Kg-dry	1	6/21/2013 08:19 AM
Xylenes, Total	ND		97	µg/Kg-dry	1	6/21/2013 08:19 AM
Surr: 1,2-Dichloroethane-d4	99.0		70-130	%REC	1	6/21/2013 08:19 AM
Surr: 4-Bromofluorobenzene	96.6		70-130	%REC	1	6/21/2013 08:19 AM
Surr: Dibromofluoromethane	96.6		70-130	%REC	1	6/21/2013 08:19 AM
Surr: Toluene-d8	96.8		70-130	%REC	1	6/21/2013 08:19 AM
MOISTURE						
			A2540 G			Analyst: BD
Moisture	6.9		0.050	% of sample	1	6/19/2013 03:10 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 26-Jun-13

Client: HRL Compliance Solutions

Project: Ursa - Valley Farm B - Containment Eval. 6/12/13

Work Order: 1306761

Sample ID: BH 3 @ 10-11.5 ft

Lab ID: 1306761-03

Collection Date: 6/12/2013 04:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 6/20/2013	Analyst: RD
DRO (C10-C28)	120		4.4	mg/Kg-dry	1	6/21/2013 05:01 PM
Surr: 4-Terphenyl-d14	68.1		39-115	%REC	1	6/21/2013 05:01 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015			Analyst: RD
GRO (C6-C10)	ND		2.7	mg/Kg-dry	50	6/20/2013 07:09 PM
Surr: Toluene-d8	102		50-150	%REC	50	6/20/2013 07:09 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 6/20/2013	Analyst: RM
Acenaphthene	ND		16	µg/Kg-dry	1	6/22/2013 01:54 AM
Acenaphthylene	ND		32	µg/Kg-dry	1	6/22/2013 01:54 AM
Anthracene	ND		16	µg/Kg-dry	1	6/22/2013 01:54 AM
Benzo(a)anthracene	ND		18	µg/Kg-dry	1	6/22/2013 01:54 AM
Benzo(a)pyrene	ND		18	µg/Kg-dry	1	6/22/2013 01:54 AM
Benzo(b)fluoranthene	ND		19	µg/Kg-dry	1	6/22/2013 01:54 AM
Benzo(g,h,i)perylene	ND		30	µg/Kg-dry	1	6/22/2013 01:54 AM
Benzo(k)fluoranthene	ND		19	µg/Kg-dry	1	6/22/2013 01:54 AM
Chrysene	ND		16	µg/Kg-dry	1	6/22/2013 01:54 AM
Dibenzo(a,h)anthracene	ND		19	µg/Kg-dry	1	6/22/2013 01:54 AM
Fluoranthene	ND		16	µg/Kg-dry	1	6/22/2013 01:54 AM
Fluorene	ND		16	µg/Kg-dry	1	6/22/2013 01:54 AM
Indeno(1,2,3-cd)pyrene	ND		21	µg/Kg-dry	1	6/22/2013 01:54 AM
Naphthalene	ND		16	µg/Kg-dry	1	6/22/2013 01:54 AM
Pyrene	ND		16	µg/Kg-dry	1	6/22/2013 01:54 AM
Surr: 2-Fluorobiphenyl	74.1		12-100	%REC	1	6/22/2013 01:54 AM
Surr: 4-Terphenyl-d14	129		25-137	%REC	1	6/22/2013 01:54 AM
Surr: Nitrobenzene-d5	64.5		37-107	%REC	1	6/22/2013 01:54 AM
VOLATILE ORGANIC COMPOUNDS						
			SW8260		Prep Date: 6/19/2013	Analyst: AK
Benzene	ND		32	µg/Kg-dry	1	6/21/2013 08:43 AM
Ethylbenzene	ND		32	µg/Kg-dry	1	6/21/2013 08:43 AM
m,p-Xylene	ND		64	µg/Kg-dry	1	6/21/2013 08:43 AM
o-Xylene	ND		32	µg/Kg-dry	1	6/21/2013 08:43 AM
Toluene	ND		32	µg/Kg-dry	1	6/21/2013 08:43 AM
Xylenes, Total	ND		96	µg/Kg-dry	1	6/21/2013 08:43 AM
Surr: 1,2-Dichloroethane-d4	98.4		70-130	%REC	1	6/21/2013 08:43 AM
Surr: 4-Bromofluorobenzene	97.4		70-130	%REC	1	6/21/2013 08:43 AM
Surr: Dibromofluoromethane	99.1		70-130	%REC	1	6/21/2013 08:43 AM
Surr: Toluene-d8	96.6		70-130	%REC	1	6/21/2013 08:43 AM
MOISTURE						
			A2540 G			Analyst: BD
Moisture	6.3		0.050	% of sample	1	6/19/2013 03:10 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 26-Jun-13

Client: HRL Compliance Solutions

Project: Ursa - Valley Farm B - Containment Eval. 6/12/13

Work Order: 1306761

Sample ID: BH 4 @ 7-8.5 ft

Lab ID: 1306761-04

Collection Date: 6/12/2013 04:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	25		SW8015M		Prep Date: 6/20/2013	Analyst: RD
			4.7	mg/Kg-dry	1	6/21/2013 05:31 PM
Surr: 4-Terphenyl-d14	44.3		39-115	%REC	1	6/21/2013 05:31 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015			Analyst: RD
			2.8	mg/Kg-dry	50	6/20/2013 07:33 PM
Surr: Toluene-d8	103		50-150	%REC	50	6/20/2013 07:33 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
SW8270					Prep Date: 6/20/2013	Analyst: RM
Acenaphthene	ND		17	µg/Kg-dry	1	6/22/2013 02:14 AM
Acenaphthylene	ND		34	µg/Kg-dry	1	6/22/2013 02:14 AM
Anthracene	ND		17	µg/Kg-dry	1	6/22/2013 02:14 AM
Benzo(a)anthracene	ND		19	µg/Kg-dry	1	6/22/2013 02:14 AM
Benzo(a)pyrene	ND		19	µg/Kg-dry	1	6/22/2013 02:14 AM
Benzo(b)fluoranthene	ND		20	µg/Kg-dry	1	6/22/2013 02:14 AM
Benzo(g,h,i)perylene	ND		32	µg/Kg-dry	1	6/22/2013 02:14 AM
Benzo(k)fluoranthene	ND		20	µg/Kg-dry	1	6/22/2013 02:14 AM
Chrysene	ND		17	µg/Kg-dry	1	6/22/2013 02:14 AM
Dibenzo(a,h)anthracene	ND		20	µg/Kg-dry	1	6/22/2013 02:14 AM
Fluoranthene	ND		17	µg/Kg-dry	1	6/22/2013 02:14 AM
Fluorene	ND		17	µg/Kg-dry	1	6/22/2013 02:14 AM
Indeno(1,2,3-cd)pyrene	ND		23	µg/Kg-dry	1	6/22/2013 02:14 AM
Naphthalene	ND		17	µg/Kg-dry	1	6/22/2013 02:14 AM
Pyrene	ND		17	µg/Kg-dry	1	6/22/2013 02:14 AM
Surr: 2-Fluorobiphenyl	83.1		12-100	%REC	1	6/22/2013 02:14 AM
Surr: 4-Terphenyl-d14	121		25-137	%REC	1	6/22/2013 02:14 AM
Surr: Nitrobenzene-d5	74.7		37-107	%REC	1	6/22/2013 02:14 AM
VOLATILE ORGANIC COMPOUNDS						
SW8260					Prep Date: 6/19/2013	Analyst: AK
Benzene	ND		34	µg/Kg-dry	1	6/21/2013 09:07 AM
Ethylbenzene	ND		34	µg/Kg-dry	1	6/21/2013 09:07 AM
m,p-Xylene	ND		68	µg/Kg-dry	1	6/21/2013 09:07 AM
o-Xylene	ND		34	µg/Kg-dry	1	6/21/2013 09:07 AM
Toluene	ND		34	µg/Kg-dry	1	6/21/2013 09:07 AM
Xylenes, Total	ND		100	µg/Kg-dry	1	6/21/2013 09:07 AM
Surr: 1,2-Dichloroethane-d4	99.4		70-130	%REC	1	6/21/2013 09:07 AM
Surr: 4-Bromofluorobenzene	96.4		70-130	%REC	1	6/21/2013 09:07 AM
Surr: Dibromofluoromethane	99.2		70-130	%REC	1	6/21/2013 09:07 AM
Surr: Toluene-d8	97.2		70-130	%REC	1	6/21/2013 09:07 AM
MOISTURE						
A2540 G						Analyst: BD
Moisture	12		0.050	% of sample	1	6/19/2013 03:10 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 26-Jun-13

Client: HRL Compliance Solutions

Project: Ursa - Valley Farm B - Containment Eval. 6/12/13

Work Order: 1306761

Sample ID: BH 5 @2-3.5 ft

Lab ID: 1306761-05

Collection Date: 6/12/2013 04:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 6/20/2013	Analyst: RD
DRO (C10-C28)	190		4.5	mg/Kg-dry	1	6/21/2013 06:01 PM
Surr: 4-Terphenyl-d14	90.9		39-115	%REC	1	6/21/2013 06:01 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015			Analyst: RD
GRO (C6-C10)	ND		2.7	mg/Kg-dry	50	6/20/2013 07:58 PM
Surr: Toluene-d8	102		50-150	%REC	50	6/20/2013 07:58 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 6/20/2013	Analyst: RM
Acenaphthene	ND		16	µg/Kg-dry	1	6/22/2013 02:33 AM
Acenaphthylene	ND		33	µg/Kg-dry	1	6/22/2013 02:33 AM
Anthracene	ND		16	µg/Kg-dry	1	6/22/2013 02:33 AM
Benzo(a)anthracene	ND		19	µg/Kg-dry	1	6/22/2013 02:33 AM
Benzo(a)pyrene	ND		19	µg/Kg-dry	1	6/22/2013 02:33 AM
Benzo(b)fluoranthene	ND		20	µg/Kg-dry	1	6/22/2013 02:33 AM
Benzo(g,h,i)perylene	ND		30	µg/Kg-dry	1	6/22/2013 02:33 AM
Benzo(k)fluoranthene	ND		20	µg/Kg-dry	1	6/22/2013 02:33 AM
Chrysene	ND		16	µg/Kg-dry	1	6/22/2013 02:33 AM
Dibenzo(a,h)anthracene	ND		20	µg/Kg-dry	1	6/22/2013 02:33 AM
Fluoranthene	ND		16	µg/Kg-dry	1	6/22/2013 02:33 AM
Fluorene	ND		16	µg/Kg-dry	1	6/22/2013 02:33 AM
Indeno(1,2,3-cd)pyrene	ND		22	µg/Kg-dry	1	6/22/2013 02:33 AM
Naphthalene	ND		16	µg/Kg-dry	1	6/22/2013 02:33 AM
Pyrene	ND		16	µg/Kg-dry	1	6/22/2013 02:33 AM
Surr: 2-Fluorobiphenyl	74.2		12-100	%REC	1	6/22/2013 02:33 AM
Surr: 4-Terphenyl-d14	145	S	25-137	%REC	1	6/22/2013 02:33 AM
Surr: Nitrobenzene-d5	60.4		37-107	%REC	1	6/22/2013 02:33 AM
VOLATILE ORGANIC COMPOUNDS						
			SW8260		Prep Date: 6/19/2013	Analyst: AK
Benzene	ND		33	µg/Kg-dry	1	6/21/2013 09:31 AM
Ethylbenzene	ND		33	µg/Kg-dry	1	6/21/2013 09:31 AM
m,p-Xylene	ND		66	µg/Kg-dry	1	6/21/2013 09:31 AM
o-Xylene	ND		33	µg/Kg-dry	1	6/21/2013 09:31 AM
Toluene	ND		33	µg/Kg-dry	1	6/21/2013 09:31 AM
Xylenes, Total	ND		99	µg/Kg-dry	1	6/21/2013 09:31 AM
Surr: 1,2-Dichloroethane-d4	98.6		70-130	%REC	1	6/21/2013 09:31 AM
Surr: 4-Bromofluorobenzene	98.4		70-130	%REC	1	6/21/2013 09:31 AM
Surr: Dibromofluoromethane	98.6		70-130	%REC	1	6/21/2013 09:31 AM
Surr: Toluene-d8	99.9		70-130	%REC	1	6/21/2013 09:31 AM
MOISTURE						
			A2540 G			Analyst: BD
Moisture	9.0		0.050	% of sample	1	6/19/2013 03:10 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1306761

Project: Ursa - Valley Farm B - Containment Eval. 6/12/13

Batch ID: 49191

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-49191-49191				Units: mg/Kg		Analysis Date: 6/21/2013 10:32 AM		
Client ID:		Run ID: GC8_130621B				SeqNo: 2358309		Prep Date: 6/20/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
<i>Surr: 4-Terphenyl-d14</i>	<i>0.9017</i>	<i>0</i>	<i>1.667</i>	<i>0</i>	<i>54.1</i>	<i>39-115</i>	<i>0</i>			

LCS		Sample ID: DLCSS1-49191-49191				Units: mg/Kg		Analysis Date: 6/21/2013 11:02 AM		
Client ID:		Run ID: GC8_130621B				SeqNo: 2358310		Prep Date: 6/20/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	155.6	4.2	166.7	0	93.3	49-124	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>0.8507</i>	<i>0</i>	<i>1.667</i>	<i>0</i>	<i>51</i>	<i>39-115</i>	<i>0</i>			

MS		Sample ID: 1306744-01B MS				Units: mg/Kg		Analysis Date: 6/21/2013 11:32 AM		
Client ID:		Run ID: GC8_130621B				SeqNo: 2358311		Prep Date: 6/20/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	461.7	8.2	326.5	143.3	97.5	49-130	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>2.676</i>	<i>0</i>	<i>3.265</i>	<i>0</i>	<i>82</i>	<i>39-115</i>	<i>0</i>			

MSD		Sample ID: 1306744-01B MSD				Units: mg/Kg		Analysis Date: 6/21/2013 12:02 PM		
Client ID:		Run ID: GC8_130621B				SeqNo: 2358312		Prep Date: 6/20/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	450.6	8.2	326.6	143.3	94.1	49-130	461.7	2.43	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>2.401</i>	<i>0</i>	<i>3.266</i>	<i>0</i>	<i>73.5</i>	<i>39-115</i>	<i>2.676</i>	<i>10.8</i>	<i>30</i>	

The following samples were analyzed in this batch:

1306761-01C	1306761-02C	1306761-03C
1306761-04C	1306761-05C	

Client: HRL Compliance Solutions
Work Order: 1306761
Project: Ursa - Valley Farm B - Containment Eval. 6/12/13

QC BATCH REPORT

Batch ID: **R122583** Instrument ID **GC10** Method: **SW8015**

MBLK		Sample ID: GBLK1-130620-R122583				Units: µg/L		Analysis Date: 6/20/2013 01:24 PM		
Client ID:		Run ID: GC10_130620A				SeqNo: 2356385		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
<i>Surr: Toluene-d8</i>	110.6	0	100	0	111	70-130	0			

LCS		Sample ID: GLCS1-130620-R122583				Units: µg/L		Analysis Date: 6/20/2013 12:59 PM		
Client ID:		Run ID: GC10_130620A				SeqNo: 2356384		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	8547	200	10000	0	85.5	70-130	0			
<i>Surr: Toluene-d8</i>	113.7	0	100	0	114	70-130	0			

MS		Sample ID: 1306762-04A MS				Units: µg/L		Analysis Date: 6/20/2013 10:01 PM		
Client ID:		Run ID: GC10_130620A				SeqNo: 2356668		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	7587	200	10000	0	75.9	70-130	0			
<i>Surr: Toluene-d8</i>	112	0	100	0	112	70-130	0			

MSD		Sample ID: 1306762-04A MSD				Units: µg/L		Analysis Date: 6/20/2013 10:25 PM		
Client ID:		Run ID: GC10_130620A				SeqNo: 2356669		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	7158	200	10000	0	71.6	70-130	7587	5.83	30	
<i>Surr: Toluene-d8</i>	111	0	100	0	111	70-130	112	0.96	30	

The following samples were analyzed in this batch:

1306761-01A	1306761-02A	1306761-03A
1306761-04A	1306761-05A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1306761
Project: Ursa - Valley Farm B - Containment Eval. 6/12/13

QC BATCH REPORT

Batch ID: **49190** Instrument ID **SVMS6** Method: **SW8270**

MBLK Sample ID: SBLKS1-49190-49190				Units: µg/Kg			Analysis Date: 6/21/2013 02:06 PM			
Client ID:		Run ID: SVMS6_130621A		SeqNo: 2361115		Prep Date: 6/20/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	30	0	0	0	0-0	0			
Acenaphthylene	ND	30	0	0	0	0-0	0			
Anthracene	ND	30	0	0	0	0-0	0			
Benzo(a)anthracene	ND	30	0	0	0	0-0	0			
Benzo(a)pyrene	ND	30	0	0	0	0-0	0			
Benzo(b)fluoranthene	ND	30	0	0	0	0-0	0			
Benzo(g,h,i)perylene	ND	30	0	0	0	0-0	0			
Benzo(k)fluoranthene	ND	30	0	0	0	0-0	0			
Chrysene	ND	30	0	0	0	0-0	0			
Dibenzo(a,h)anthracene	ND	30	0	0	0	0-0	0			
Fluoranthene	ND	30	0	0	0	0-0	0			
Fluorene	ND	30	0	0	0	0-0	0			
Indeno(1,2,3-cd)pyrene	ND	30	0	0	0	0-0	0			
Naphthalene	ND	30	0	0	0	0-0	0			
Pyrene	ND	30	0	0	0	0-0	0			
Surr: 2-Fluorobiphenyl	1319	0	1667	0	79.2	12-100	0			
Surr: 4-Terphenyl-d14	2119	0	1667	0	127	25-137	0			
Surr: Nitrobenzene-d5	1162	0	1667	0	69.7	37-107	0			

LCS Sample ID: SLCSS1-49190-49190				Units: µg/Kg			Analysis Date: 6/21/2013 02:26 PM			
Client ID:		Run ID: SVMS6_130621A		SeqNo: 2361118		Prep Date: 6/20/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	511.7	30	666.7	0	76.7	45-110	0			
Acenaphthylene	480	30	666.7	0	72	45-105	0			
Anthracene	543	30	666.7	0	81.4	55-105	0			
Benzo(a)anthracene	553.7	30	666.7	0	83	50-110	0			
Benzo(a)pyrene	592	30	666.7	0	88.8	50-110	0			
Benzo(b)fluoranthene	629.3	30	666.7	0	94.4	45-115	0			
Benzo(g,h,i)perylene	601.3	30	666.7	0	90.2	40-125	0			
Benzo(k)fluoranthene	606.3	30	666.7	0	90.9	45-115	0			
Chrysene	601.7	30	666.7	0	90.2	55-110	0			
Dibenzo(a,h)anthracene	645.7	30	666.7	0	96.8	40-125	0			
Fluoranthene	572.3	30	666.7	0	85.8	55-115	0			
Fluorene	510.3	30	666.7	0	76.5	50-110	0			
Indeno(1,2,3-cd)pyrene	592.3	30	666.7	0	88.8	40-120	0			
Naphthalene	466.3	30	666.7	0	69.9	40-105	0			
Pyrene	612	30	666.7	0	91.8	45-125	0			
Surr: 2-Fluorobiphenyl	1189	0	1667	0	71.4	12-100	0			
Surr: 4-Terphenyl-d14	1968	0	1667	0	118	25-137	0			
Surr: Nitrobenzene-d5	1106	0	1667	0	66.4	37-107	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1306761
Project: Ursa - Valley Farm B - Containment Eval. 6/12/13

QC BATCH REPORT

Batch ID: **49190** Instrument ID **SVMS6** Method: **SW8270**

MS				Sample ID: 1306773-01B MS			Units: µg/Kg		Analysis Date: 6/21/2013 04:31 PM		
Client ID:			Run ID: SVMS6_130621A			SeqNo:2361121		Prep Date: 6/20/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	986.5	58	1281	0	77	45-110		0			
Acenaphthylene	916.7	58	1281	0	71.5	45-105		0			
Anthracene	1019	58	1281	0	79.5	55-105		0			
Benzo(a)anthracene	1104	58	1281	0	86.1	50-110		0			
Benzo(a)pyrene	1199	58	1281	0	93.5	50-110		0			
Benzo(b)fluoranthene	1299	58	1281	0	101	45-115		0			
Benzo(g,h,i)perylene	921.8	58	1281	0	71.9	40-125		0			
Benzo(k)fluoranthene	1234	58	1281	0	96.3	45-115		0			
Chrysene	1079	58	1281	0	84.2	55-110		0			
Dibenzo(a,h)anthracene	1037	58	1281	0	80.9	40-125		0			
Fluoranthene	973.7	58	1281	0	76	55-115		0			
Fluorene	995.5	58	1281	0	77.7	50-110		0			
Indeno(1,2,3-cd)pyrene	1027	58	1281	0	80.1	40-120		0			
Naphthalene	850.7	58	1281	0	66.4	40-105		0			
Pyrene	1249	58	1281	0	97.5	45-125		0			
Surr: 2-Fluorobiphenyl	2342	0	3203	0	73.1	12-100		0			
Surr: 4-Terphenyl-d14	4134	0	3203	0	129	25-137		0			
Surr: Nitrobenzene-d5	2209	0	3203	0	69	37-107		0			

MSD					Sample ID: 1306773-01B MSD		Units: µg/Kg		Analysis Date: 6/21/2013 04:50 PM		
Client ID:			Run ID: SVMS6_130621A			SeqNo:2361124		Prep Date: 6/20/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1006	60	1325	0	75.9	45-110	986.5	1.99	30		
Acenaphthylene	938.1	60	1325	0	70.8	45-105	916.7	2.31	30		
Anthracene	1060	60	1325	0	80	55-105	1019	3.99	30		
Benzo(a)anthracene	1133	60	1325	0	85.5	50-110	1104	2.61	30		
Benzo(a)pyrene	1216	60	1325	0	91.7	50-110	1199	1.42	30		
Benzo(b)fluoranthene	1322	60	1325	0	99.8	45-115	1299	1.78	30		
Benzo(g,h,i)perylene	938.8	60	1325	0	70.8	40-125	921.8	1.83	30		
Benzo(k)fluoranthene	1250	60	1325	0	94.3	45-115	1234	1.27	30		
Chrysene	1096	60	1325	0	82.7	55-110	1079	1.57	30		
Dibenzo(a,h)anthracene	1067	60	1325	0	80.5	40-125	1037	2.81	30		
Fluoranthene	992.4	60	1325	0	74.9	55-115	973.7	1.91	30		
Fluorene	1008	60	1325	0	76.1	50-110	995.5	1.29	30		
Indeno(1,2,3-cd)pyrene	1047	60	1325	0	79	40-120	1027	1.92	30		
Naphthalene	891.1	60	1325	0	67.2	40-105	850.7	4.64	30		
Pyrene	1275	60	1325	0	96.2	45-125	1249	2.08	30		
Surr: 2-Fluorobiphenyl	2429	0	3313	0	73.3	12-100	2342	3.64	40		
Surr: 4-Terphenyl-d14	4189	0	3313	0	126	25-137	4134	1.33	40		
Surr: Nitrobenzene-d5	2313	0	3313	0	69.8	37-107	2209	4.58	40		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1306761
Project: Ursa - Valley Farm B - Containment Eval. 6/12/13

QC BATCH REPORT

Batch ID: **49190** Instrument ID **SVMS6** Method: **SW8270**

The following samples were analyzed in this batch:

1306761-01B	1306761-02B	1306761-03B
1306761-04B	1306761-05B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1306761
Project: Ursa - Valley Farm B - Containment Eval. 6/12/13

QC BATCH REPORT

Batch ID: **49164** Instrument ID **VMS7** Method: **SW8260**

MBLK		Sample ID: MBLK-49164-49164				Units: µg/Kg		Analysis Date: 6/20/2013 03:24 AM		
Client ID:		Run ID: VMS7_130619A				SeqNo: 2355276		Prep Date: 6/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1030	0	1000	0	103	70-130	0			
Surr: 4-Bromofluorobenzene	1007	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	979.5	0	1000	0	98	70-130	0			
Surr: Toluene-d8	1008	0	1000	0	101	70-130	0			

LCS		Sample ID: LCS1-49164-49164				Units: µg/Kg		Analysis Date: 6/20/2013 01:42 AM		
Client ID:		Run ID: VMS7_130619A				SeqNo: 2355275		Prep Date: 6/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	984	30	1000	0	98.4	75-125	0			
Ethylbenzene	1012	30	1000	0	101	75-125	0			
m,p-Xylene	2016	60	2000	0	101	80-125	0			
o-Xylene	1012	30	1000	0	101	75-125	0			
Toluene	1014	30	1000	0	101	70-125	0			
Xylenes, Total	3028	90	3000	0	101	75-125	0			
Surr: 1,2-Dichloroethane-d4	978.5	0	1000	0	97.8	70-130	0			
Surr: 4-Bromofluorobenzene	1002	0	1000	0	100	70-130	0			
Surr: Dibromofluoromethane	1012	0	1000	0	101	70-130	0			
Surr: Toluene-d8	1006	0	1000	0	101	70-130	0			

MS		Sample ID: 1306761-01A MS				Units: µg/Kg		Analysis Date: 6/20/2013 11:28 AM		
Client ID: BH 1 @ 5-6.5 ft		Run ID: VMS7_130619A				SeqNo: 2356292		Prep Date: 6/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	896.5	30	1000	0	89.6	75-125	0			
Ethylbenzene	941	30	1000	0	94.1	75-125	0			
m,p-Xylene	1853	60	2000	0	92.6	80-125	0			
o-Xylene	919.5	30	1000	0	92	75-125	0			
Toluene	913	30	1000	0	91.3	70-125	0			
Xylenes, Total	2772	90	3000	0	92.4	75-125	0			
Surr: 1,2-Dichloroethane-d4	999.5	0	1000	0	100	70-130	0			
Surr: 4-Bromofluorobenzene	1028	0	1000	0	103	70-130	0			
Surr: Dibromofluoromethane	971.5	0	1000	0	97.2	70-130	0			
Surr: Toluene-d8	985	0	1000	0	98.5	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1306761
Project: Ursa - Valley Farm B - Containment Eval. 6/12/13

QC BATCH REPORT

Batch ID: **49164** Instrument ID **VMS7** Method: **SW8260**

MSD				Sample ID: 1306761-01A MSD			Units: µg/Kg		Analysis Date: 6/20/2013 11:55 AM	
Client ID: BH 1 @ 5-6.5 ft				Run ID: VMS7_130619A			SeqNo: 2356293		Prep Date: 6/19/2013	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	844.5	30	1000	0	84.4	75-125	896.5	5.97	30	
Ethylbenzene	872.5	30	1000	0	87.2	75-125	941	7.55	30	
m,p-Xylene	1710	60	2000	0	85.5	80-125	1853	8.03	30	
o-Xylene	879	30	1000	0	87.9	75-125	919.5	4.5	30	
Toluene	850	30	1000	0	85	70-125	913	7.15	30	
Xylenes, Total	2589	90	3000	0	86.3	75-125	2772	6.85	30	
Surr: 1,2-Dichloroethane-d4	946	0	1000	0	94.6	70-130	999.5	5.5	30	
Surr: 4-Bromofluorobenzene	966.5	0	1000	0	96.6	70-130	1028	6.12	30	
Surr: Dibromofluoromethane	918	0	1000	0	91.8	70-130	971.5	5.66	30	
Surr: Toluene-d8	920.5	0	1000	0	92	70-130	985	6.77	30	

The following samples were analyzed in this batch:

1306761-01A	1306761-02A	1306761-03A
1306761-04A	1306761-05A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1306761
Project: Ursa - Valley Farm B - Containment Eval. 6/12/13

QC BATCH REPORT

Batch ID: **R122525** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R122525				Units: % of sample			Analysis Date: 6/19/2013 03:10 PM		
Client ID:	Run ID: MOIST_130619B				SeqNo: 2355388			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture ND 0.050

LCS	Sample ID: LCS-R122525				Units: % of sample			Analysis Date: 6/19/2013 03:10 PM		
Client ID:	Run ID: MOIST_130619B				SeqNo: 2355386			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP	Sample ID: 1306743-01B DUP				Units: % of sample			Analysis Date: 6/19/2013 03:10 PM		
Client ID:	Run ID: MOIST_130619B				SeqNo: 2355351			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 10.51 0.050 0 0 0 0-0 10.81 2.81 20

DUP	Sample ID: 1306760-01B DUP				Units: % of sample			Analysis Date: 6/19/2013 03:10 PM		
Client ID:	Run ID: MOIST_130619B				SeqNo: 2355373			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 20.42 0.050 0 0 0 0-0 19.14 6.47 20

The following samples were analyzed in this batch:

1306761-01B	1306761-02B	1306761-03B
1306761-04B	1306761-05B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



WORKORDER
#

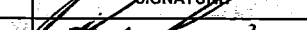

1306761

PAGE

1 of 2

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Kris Rowe	6/18/2013	17:00
RECEIVED BY		KEITH WIERENGA	6/19/13	0930
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **19-Jun-13 09:30**

Work Order: **1306761**

Received by: **KRW**

Checklist completed by Keith Wurenga
eSignature

19-Jun-13
Date

Reviewed by: Ann Preston
eSignature

21-Jun-13
Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.8 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>6/19/2013 12:54:13 PM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			
Login Notes:			

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

FedEx US Airbill

Express

FedEx Tracking Number

8722 9438 1252

0200

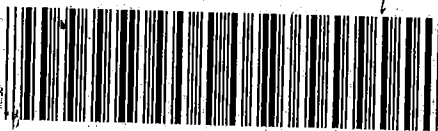
Form ID No.

FedEx Retrieval Copy

1 From
Date 6/18/13 Sender's FedEx Account Number
Sender's Name Finn Whiting Phone 770 394-0798
Company HRL Compliance Solutions, Inc.
Address 2385 P. 21 Road
City Grand Junction State CO ZIP 81505

2 Your Internal Billing Reference
3 To Recipient's Name Simple Recycling Phone 616 399-6070
Company ALC Environmental
Address 2352 128 Ave
City Holland State ME ZIP 04942

Address 2352 128 Ave
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Dept./Floor/Suite/Room
Address Use this line for the HOLD location address or for continuation of your shipping address.
City Holland State ME ZIP 04942



8722 9438 1252

4a Express Package Service
01 ☒ FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
05 ☐ FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available.
06 ☐ FedEx First Overnight Earliest next business morning delivery to select locations.*
03 ☐ FedEx 2Day Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
20 ☐ FedEx Express Saver Third business day.* Sunday Delivery NOT available.
4b Express Freight Service
70 ☐ FedEx 1Day Freight Next business day.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
80 ☐ FedEx 2Day Freight Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
83 ☐ FedEx 3Day Freight Third business day.* Saturday Delivery NOT available.
5 Packaging
06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* Includes FedEx Small Pak and FedEx Large Pak.
03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☐ Other

6 Special Handling and Delivery Signature Options
03 ☒ SATURDAY DELIVERY
☐ No Signature Required Package may be left without obtaining a signature for delivery.
10 ☐ Direct Signature Someone at recipient's address may sign for delivery. Fee applies.
34 ☐ Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.
Does this shipment contain dangerous goods?
☒ No 04 ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required.
06 ☐ Dry Ice Dry Ice, 9 UN 1845 x kg
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box. ☐ Cargo Aircraft Only

7 Payment Bill to:
1 ☐ Sender Acct. No. in Section Two to bill. 2 ☒ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check
Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐
Total Packages Total Weight Credit Card Auth.
lbs.

*Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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