



21-Sep-2015

Mark Mumby
HRL Compliance Solutions, Inc
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Boies Ranch 27-A**

Work Order: **15091099**

Dear Mark,

ALS Environmental received 8 samples on 19-Sep-2015 09:15 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 black ink, appearing to read "Les Arnold".

Electronically approved by: Les Arnold

Les Arnold
Senior 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

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Environmental The ALS logo, a stylized blue triangle with a yellow flame-like shape inside.

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RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: Boies Ranch 27-A
Work Order: 15091099

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>
15091099-01	Section 1	Soil		9/17/2015 10:20	9/19/2015 09:15	<input type="checkbox"/>
15091099-02	Section 2	Soil		9/17/2015 10:25	9/19/2015 09:15	<input type="checkbox"/>
15091099-03	Section 3	Soil		9/17/2015 10:30	9/19/2015 09:15	<input type="checkbox"/>
15091099-04	Section 4	Soil		9/17/2015 10:35	9/19/2015 09:15	<input type="checkbox"/>
15091099-05	Section 5	Soil		9/17/2015 10:45	9/19/2015 09:15	<input type="checkbox"/>
15091099-06	Section 6	Soil		9/17/2015 11:00	9/19/2015 09:15	<input type="checkbox"/>
15091099-07	Section 7	Soil		9/17/2015 11:10	9/19/2015 09:15	<input type="checkbox"/>
15091099-08	Section 8	Soil		9/17/2015 11:20	9/19/2015 09:15	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: Boies Ranch 27-A
Work Order: 15091099

Case Narrative

Samples for the above noted Work Order were received on 09/19/2015. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

Sample Receiving:

No deviations or anomalies were noted.

Volatile Organics:

No deviations or anomalies were noted.

Extractable Organics:

Some samples exhibited low surrogate recoveries for DRO. Samples which have low surrogates may be biased low. Due to the TAT requirement, there was no opportunity to re-extract and re-analyze these samples.

No deviations or anomalies were noted.

Metals:

No deviations or anomalies were noted.

Wet Chemistry:

No deviations or anomalies were noted.

ALS Group USA, Corp

Date: 21-Sep-15

Client: HRL Compliance Solutions, Inc
Project: Boies Ranch 27-A
Sample ID: Section 1
Collection Date: 9/17/2015 10:20 AM

Work Order: 15091099
Lab ID: 15091099-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3550 / 9/20/15	Analyst: IT
DRO (C10-C28)	260		9.6	mg/Kg-dry	1	9/21/2015 01:33 PM
Surr: 4-Terphenyl-d14	46.2		39-133	%REC	1	9/21/2015 01:33 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep: SW5035 / 9/21/15	Analyst: IT
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	9/21/2015 01:47 PM
Surr: Toluene-d8	110		50-150	%REC	1	9/21/2015 01:47 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep: SW5035 / 9/21/15	Analyst: AK
Benzene	ND		35	µg/Kg-dry	1	9/21/2015 11:48 AM
Ethylbenzene	ND		35	µg/Kg-dry	1	9/21/2015 11:48 AM
m,p-Xylene	ND		69	µg/Kg-dry	1	9/21/2015 11:48 AM
o-Xylene	ND		35	µg/Kg-dry	1	9/21/2015 11:48 AM
Toluene	ND		35	µg/Kg-dry	1	9/21/2015 11:48 AM
Xylenes, Total	ND		100	µg/Kg-dry	1	9/21/2015 11:48 AM
Surr: 1,2-Dichloroethane-d4	105		70-130	%REC	1	9/21/2015 11:48 AM
Surr: 4-Bromofluorobenzene	98.9		70-130	%REC	1	9/21/2015 11:48 AM
Surr: Dibromofluoromethane	98.3		70-130	%REC	1	9/21/2015 11:48 AM
Surr: Toluene-d8	99.3		70-130	%REC	1	9/21/2015 11:48 AM
MOISTURE						
			E160.3M			Analyst: TM
Moisture	14		0.050	% of sample	1	9/21/2015 10:22 AM

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

ALS Group USA, Corp

Date: 21-Sep-15

Client: HRL Compliance Solutions, Inc
Project: Boies Ranch 27-A
Sample ID: Section 2
Collection Date: 9/17/2015 10:25 AM

Work Order: 15091099
Lab ID: 15091099-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3550 / 9/20/15	Analyst: IT
DRO (C10-C28)	52		4.8	mg/Kg-dry	1	9/21/2015 02:03 PM
Surr: 4-Terphenyl-d14	31.4	S	39-133	%REC	1	9/21/2015 02:03 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep: SW5035 / 9/21/15	Analyst: IT
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	9/21/2015 02:12 PM
Surr: Toluene-d8	111		50-150	%REC	1	9/21/2015 02:12 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep: SW5035 / 9/21/15	Analyst: AK
Benzene	ND		35	µg/Kg-dry	1	9/21/2015 12:13 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	9/21/2015 12:13 PM
m,p-Xylene	ND		70	µg/Kg-dry	1	9/21/2015 12:13 PM
o-Xylene	ND		35	µg/Kg-dry	1	9/21/2015 12:13 PM
Toluene	ND		35	µg/Kg-dry	1	9/21/2015 12:13 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	9/21/2015 12:13 PM
Surr: 1,2-Dichloroethane-d4	103		70-130	%REC	1	9/21/2015 12:13 PM
Surr: 4-Bromofluorobenzene	99.8		70-130	%REC	1	9/21/2015 12:13 PM
Surr: Dibromofluoromethane	98.2		70-130	%REC	1	9/21/2015 12:13 PM
Surr: Toluene-d8	99.8		70-130	%REC	1	9/21/2015 12:13 PM
MOISTURE						
			E160.3M			Analyst: TM
Moisture	14		0.050	% of sample	1	9/21/2015 10:22 AM

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

ALS Group USA, Corp

Date: 21-Sep-15

Client: HRL Compliance Solutions, Inc
Project: Boies Ranch 27-A
Sample ID: Section 3
Collection Date: 9/17/2015 10:30 AM

Work Order: 15091099
Lab ID: 15091099-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	91		SW8015M		Prep: SW3550 / 9/20/15	Analyst: IT
			4.7	mg/Kg-dry	1	9/21/2015 02:32 PM
Surr: 4-Terphenyl-d14	36.9	S	39-133	%REC	1	9/21/2015 02:32 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015D		Prep: SW5035 / 9/21/15	Analyst: IT
			2.9	mg/Kg-dry	1	9/21/2015 02:36 PM
Surr: Toluene-d8	104		50-150	%REC	1	9/21/2015 02:36 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep: SW5035 / 9/21/15	Analyst: AK
Benzene	ND		35	µg/Kg-dry	1	9/21/2015 12:38 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	9/21/2015 12:38 PM
m,p-Xylene	ND		70	µg/Kg-dry	1	9/21/2015 12:38 PM
o-Xylene	ND		35	µg/Kg-dry	1	9/21/2015 12:38 PM
Toluene	ND		35	µg/Kg-dry	1	9/21/2015 12:38 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	9/21/2015 12:38 PM
Surr: 1,2-Dichloroethane-d4	104		70-130	%REC	1	9/21/2015 12:38 PM
Surr: 4-Bromofluorobenzene	99.8		70-130	%REC	1	9/21/2015 12:38 PM
Surr: Dibromofluoromethane	97.8		70-130	%REC	1	9/21/2015 12:38 PM
Surr: Toluene-d8	99.4		70-130	%REC	1	9/21/2015 12:38 PM
MOISTURE						
			E160.3M			Analyst: TM
Moisture	14		0.050	% of sample	1	9/21/2015 10:22 AM

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

ALS Group USA, Corp

Date: 21-Sep-15

Client: HRL Compliance Solutions, Inc
Project: Boies Ranch 27-A
Sample ID: Section 4
Collection Date: 9/17/2015 10:35 AM

Work Order: 15091099
Lab ID: 15091099-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3550 / 9/20/15	Analyst: IT
DRO (C10-C28)	24		4.7	mg/Kg-dry	1	9/21/2015 03:02 PM
Surr: 4-Terphenyl-d14	8.22	S	39-133	%REC	1	9/21/2015 03:02 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep: SW5035 / 9/21/15	Analyst: IT
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	9/21/2015 03:01 PM
Surr: Toluene-d8	111		50-150	%REC	1	9/21/2015 03:01 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep: SW5035 / 9/21/15	Analyst: AK
Benzene	ND		35	µg/Kg-dry	1	9/21/2015 01:03 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	9/21/2015 01:03 PM
m,p-Xylene	ND		69	µg/Kg-dry	1	9/21/2015 01:03 PM
o-Xylene	ND		35	µg/Kg-dry	1	9/21/2015 01:03 PM
Toluene	ND		35	µg/Kg-dry	1	9/21/2015 01:03 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	9/21/2015 01:03 PM
Surr: 1,2-Dichloroethane-d4	105		70-130	%REC	1	9/21/2015 01:03 PM
Surr: 4-Bromofluorobenzene	99.9		70-130	%REC	1	9/21/2015 01:03 PM
Surr: Dibromofluoromethane	101		70-130	%REC	1	9/21/2015 01:03 PM
Surr: Toluene-d8	102		70-130	%REC	1	9/21/2015 01:03 PM
MOISTURE						
			E160.3M			Analyst: TM
Moisture	13		0.050	% of sample	1	9/21/2015 10:22 AM

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

ALS Group USA, Corp

Date: 21-Sep-15

Client: HRL Compliance Solutions, Inc
Project: Boies Ranch 27-A
Sample ID: Section 5
Collection Date: 9/17/2015 10:45 AM

Work Order: 15091099
Lab ID: 15091099-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3550 / 9/20/15	Analyst: IT
DRO (C10-C28)	49		4.7	mg/Kg-dry	1	9/21/2015 03:32 PM
Surr: 4-Terphenyl-d14	57.2		39-133	%REC	1	9/21/2015 03:32 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep: SW5035 / 9/21/15	Analyst: IT
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	9/21/2015 03:51 PM
Surr: Toluene-d8	105		50-150	%REC	1	9/21/2015 03:51 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep: SW5035 / 9/21/15	Analyst: BG
Benzene	ND		35	µg/Kg-dry	1	9/21/2015 01:17 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	9/21/2015 01:17 PM
m,p-Xylene	ND		69	µg/Kg-dry	1	9/21/2015 01:17 PM
o-Xylene	ND		35	µg/Kg-dry	1	9/21/2015 01:17 PM
Toluene	ND		35	µg/Kg-dry	1	9/21/2015 01:17 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	9/21/2015 01:17 PM
Surr: 1,2-Dichloroethane-d4	104		70-130	%REC	1	9/21/2015 01:17 PM
Surr: 4-Bromofluorobenzene	96.8		70-130	%REC	1	9/21/2015 01:17 PM
Surr: Dibromofluoromethane	99.0		70-130	%REC	1	9/21/2015 01:17 PM
Surr: Toluene-d8	94.8		70-130	%REC	1	9/21/2015 01:17 PM
MOISTURE						
			E160.3M			Analyst: TM
Moisture	13		0.050	% of sample	1	9/21/2015 10:22 AM

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

ALS Group USA, Corp

Date: 21-Sep-15

Client: HRL Compliance Solutions, Inc

Project: Boies Ranch 27-A

Sample ID: Section 6

Collection Date: 9/17/2015 11:00 AM

Work Order: 15091099

Lab ID: 15091099-06

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3550 / 9/20/15	Analyst: IT
DRO (C10-C28)	62		4.8	mg/Kg-dry	1	9/21/2015 04:02 PM
Surr: 4-Terphenyl-d14	56.0		39-133	%REC	1	9/21/2015 04:02 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep: SW5035 / 9/21/15	Analyst: IT
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	9/21/2015 04:16 PM
Surr: Toluene-d8	113		50-150	%REC	1	9/21/2015 04:16 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep: SW5035 / 9/21/15	Analyst: BG
Benzene	ND		35	µg/Kg-dry	1	9/21/2015 01:43 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	9/21/2015 01:43 PM
m,p-Xylene	ND		70	µg/Kg-dry	1	9/21/2015 01:43 PM
o-Xylene	ND		35	µg/Kg-dry	1	9/21/2015 01:43 PM
Toluene	ND		35	µg/Kg-dry	1	9/21/2015 01:43 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	9/21/2015 01:43 PM
Surr: 1,2-Dichloroethane-d4	105		70-130	%REC	1	9/21/2015 01:43 PM
Surr: 4-Bromofluorobenzene	103		70-130	%REC	1	9/21/2015 01:43 PM
Surr: Dibromofluoromethane	100		70-130	%REC	1	9/21/2015 01:43 PM
Surr: Toluene-d8	96.0		70-130	%REC	1	9/21/2015 01:43 PM
MOISTURE						
			E160.3M			Analyst: TM
Moisture	15		0.050	% of sample	1	9/21/2015 10:22 AM

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

ALS Group USA, Corp

Date: 21-Sep-15

Client: HRL Compliance Solutions, Inc

Project: Boies Ranch 27-A

Sample ID: Section 7

Collection Date: 9/17/2015 11:10 AM

Work Order: 15091099

Lab ID: 15091099-07

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3550 / 9/20/15	Analyst: IT
DRO (C10-C28)	86		4.8	mg/Kg-dry	1	9/21/2015 04:32 PM
Surr: 4-Terphenyl-d14	55.6		39-133	%REC	1	9/21/2015 04:32 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep: SW5035 / 9/21/15	Analyst: IT
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	9/21/2015 04:41 PM
Surr: Toluene-d8	106		50-150	%REC	1	9/21/2015 04:41 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep: SW5035 / 9/21/15	Analyst: BG
Benzene	ND		36	µg/Kg-dry	1	9/21/2015 02:10 PM
Ethylbenzene	ND		36	µg/Kg-dry	1	9/21/2015 02:10 PM
m,p-Xylene	ND		71	µg/Kg-dry	1	9/21/2015 02:10 PM
o-Xylene	ND		36	µg/Kg-dry	1	9/21/2015 02:10 PM
Toluene	ND		36	µg/Kg-dry	1	9/21/2015 02:10 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	9/21/2015 02:10 PM
Surr: 1,2-Dichloroethane-d4	106		70-130	%REC	1	9/21/2015 02:10 PM
Surr: 4-Bromofluorobenzene	100		70-130	%REC	1	9/21/2015 02:10 PM
Surr: Dibromofluoromethane	99.8		70-130	%REC	1	9/21/2015 02:10 PM
Surr: Toluene-d8	96.8		70-130	%REC	1	9/21/2015 02:10 PM
MOISTURE						
			E160.3M			Analyst: TM
Moisture	16		0.050	% of sample	1	9/21/2015 10:22 AM

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

ALS Group USA, Corp

Date: 21-Sep-15

Client: HRL Compliance Solutions, Inc
Project: Boies Ranch 27-A
Sample ID: Section 8
Collection Date: 9/17/2015 11:20 AM

Work Order: 15091099
Lab ID: 15091099-08
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3550 / 9/20/15	Analyst: IT
DRO (C10-C28)	44		4.9	mg/Kg-dry	1	9/21/2015 05:01 PM
Surr: 4-Terphenyl-d14	58.0		39-133	%REC	1	9/21/2015 05:01 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep: SW5035 / 9/21/15	Analyst: IT
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	9/21/2015 05:06 PM
Surr: Toluene-d8	112		50-150	%REC	1	9/21/2015 05:06 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep: SW5035 / 9/21/15	Analyst: BG
Benzene	ND		36	µg/Kg-dry	1	9/21/2015 02:36 PM
Ethylbenzene	ND		36	µg/Kg-dry	1	9/21/2015 02:36 PM
m,p-Xylene	ND		71	µg/Kg-dry	1	9/21/2015 02:36 PM
o-Xylene	ND		36	µg/Kg-dry	1	9/21/2015 02:36 PM
Toluene	ND		36	µg/Kg-dry	1	9/21/2015 02:36 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	9/21/2015 02:36 PM
Surr: 1,2-Dichloroethane-d4	106		70-130	%REC	1	9/21/2015 02:36 PM
Surr: 4-Bromofluorobenzene	97.5		70-130	%REC	1	9/21/2015 02:36 PM
Surr: Dibromofluoromethane	97.4		70-130	%REC	1	9/21/2015 02:36 PM
Surr: Toluene-d8	96.5		70-130	%REC	1	9/21/2015 02:36 PM
MOISTURE						
			E160.3M			Analyst: TM
Moisture	16		0.050	% of sample	1	9/21/2015 10:22 AM

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

Client: HRL Compliance Solutions, Inc
Project: Boies Ranch 27-A
WorkOrder: 15091099

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 is present at an estimated concentration between the MDL and Report 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
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
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

Client: HRL Compliance Solutions, Inc
Work Order: 15091099
Project: Boies Ranch 27-A

QC BATCH REPORT

Batch ID: **76285** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-76285-76285				Units: mg/Kg		Analysis Date: 9/21/2015 12:33 PM		
Client ID:		Run ID: GC8_150921A				SeqNo: 3467190		Prep Date: 9/20/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	ND	5.0								
<i>Surr: 4-Terphenyl-d14</i>	1.578	0	2	0	78.9	39-133	0			

LCS		Sample ID: DLCSS1-76285-76285				Units: mg/Kg		Analysis Date: 9/21/2015 01:03 PM		
Client ID:		Run ID: GC8_150921A				SeqNo: 3467191		Prep Date: 9/20/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	197.6	5.0	200	0	98.8	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.293	0	2	0	64.6	39-133	0			

The following samples were analyzed in this batch:

15091099-01A	15091099-02A	15091099-03A
15091099-04A	15091099-05A	15091099-06A
15091099-07A	15091099-08A	

Client: HRL Compliance Solutions, Inc
Work Order: 15091099
Project: Boies Ranch 27-A

QC BATCH REPORT

Batch ID: **76311** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-76311-76311				Units: µg/Kg		Analysis Date: 9/21/2015 01:22 PM		
Client ID:		Run ID: GC9_150921A				SeqNo: 3467277		Prep Date: 9/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
<i>Surr: Toluene-d8</i>	<i>4550</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>91</i>	<i>50-150</i>	<i>0</i>			

LCS		Sample ID: LCS-76311-76311				Units: µg/Kg		Analysis Date: 9/21/2015 12:58 PM		
Client ID:		Run ID: GC9_150921A				SeqNo: 3467276		Prep Date: 9/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	422800	2,500	500000	0	84.6	70-130	0			
<i>Surr: Toluene-d8</i>	<i>4742</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>94.8</i>	<i>50-150</i>	<i>0</i>			

The following samples were analyzed in this batch:

15091099-01A	15091099-02A	15091099-03A
15091099-04A	15091099-05A	15091099-06A
15091099-07A	15091099-08A	

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

Client: HRL Compliance Solutions, Inc
Work Order: 15091099
Project: Boies Ranch 27-A

QC BATCH REPORT

Batch ID: **76314** Instrument ID **VMS6** Method: **SW8260B**

MBLK		Sample ID: MBLK-76314-76314				Units: µg/Kg		Analysis Date: 9/21/2015 12:51 PM		
Client ID:		Run ID: VMS6_150921A				SeqNo: 3466761		Prep Date: 9/21/2015		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	1062	0	1000	0	106	70-130	0			
Surr: 4-Bromofluorobenzene	968.5	0	1000	0	96.8	70-130	0			
Surr: Dibromofluoromethane	997	0	1000	0	99.7	70-130	0			
Surr: Toluene-d8	971.5	0	1000	0	97.2	70-130	0			

LCS		Sample ID: LCS-76314-76314				Units: µg/Kg		Analysis Date: 9/21/2015 11:33 AM		
Client ID:		Run ID: VMS6_150921A				SeqNo: 3466789		Prep Date: 9/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1026	30	1000	0	103	75-125	0			
Ethylbenzene	995.5	30	1000	0	99.6	75-125	0			
m,p-Xylene	2021	60	2000	0	101	80-125	0			
o-Xylene	960.5	30	1000	0	96	75-125	0			
Toluene	1012	30	1000	0	101	70-125	0			
Xylenes, Total	2982	90	3000	0	99.4	75-125	0			
Surr: 1,2-Dichloroethane-d4	1014	0	1000	0	101	70-130	0			
Surr: 4-Bromofluorobenzene	985.5	0	1000	0	98.6	70-130	0			
Surr: Dibromofluoromethane	990	0	1000	0	99	70-130	0			
Surr: Toluene-d8	1006	0	1000	0	101	70-130	0			

The following samples were analyzed in this batch:

15091099-01A	15091099-02A	15091099-03A
15091099-04A	15091099-05A	15091099-06A
15091099-07A	15091099-08A	

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

Client: HRL Compliance Solutions, Inc
Work Order: 15091099
Project: Boies Ranch 27-A

QC BATCH REPORT

Batch ID: **R172035** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R172035				Units: % of sample		Analysis Date: 9/21/2015 10:22 AM		
Client ID:		Run ID: MOIST_150921A		SeqNo: 3466613		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-R172035				Units: % of sample		Analysis Date: 9/21/2015 10:22 AM		
Client ID:		Run ID: MOIST_150921A		SeqNo: 3466612		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: 15091099-01A DUP				Units: % of sample		Analysis Date: 9/21/2015 10:22 AM		
Client ID: Section 1		Run ID: MOIST_150921A		SeqNo: 3466592		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 13.81 0.050 0 0 0 13.6 1.53 20

The following samples were analyzed in this batch:

15091099-01A	15091099-02A	15091099-03A
15091099-04A	15091099-05A	15091099-06A
15091099-07A	15091099-08A	

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



ALS Laboratory Group

3352 128th Avenue Holland MI, 49424

PH: (616) 399-6070

Chain-of-Custody

Form 202r8

WORKORDER #

15091099

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME Boise Ranch 27-A

SAMPLER MEM

DATE 9/18/2015

TURNAROUND 24 Hour (Same Day)

SITE ID Boise Ranch 27 A Well Pad

EDD FORMAT

PURCHASE ORDER

COMPANY NAME HRL Compliance Solutions Inc

BILL TO COMPANY HRL

SEND REPORT TO Mark E. Mumby

INVOICE ATTN TO Melissa Perose, Kim Cels

ADDRESS 2385 F/2 Rd

ADDRESS Same

CITY / STATE / ZIP Grand Trk. CO 81525

CITY / STATE / ZIP

PHONE 970-243-3271

PHONE

E-MAIL mmumby@hrlcomp.com
C.Fichardson@hrlcomp.com
jed.smith@whiting.com

E-MAIL

mderose@hrlcomp.com

BTEX
GRO
DRO

Lab ID

Field ID

Matrix

Sample Date

Sample Time

Bottles

Pres.

QC

1

Section 1

S

9/17/15

10:20

1

8

X X X

2

Section 2

/

/

10:25

1

1

3

Section 3

/

/

10:30

1

1

4

Section 4

/

/

10:35

1

1

5

Section 5

/

/

10:45

1

1

6

Section 6

/

/

11:00

1

1

7

Section 7

/

/

11:10

1

1

8

Section 8

↓

↓

11:20

↓

↓

↓ ↓ ↓

*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.

Comments:

Silica Gel Wash DRO only
Level III QC Package 3.0%

QC PACKAGE (check below)

LEVEL II (Standard QC)

LEVEL III (Std QC + forms)

LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

SIGNATURE

PRINTED NAME

DATE

TIME

RELINQUISHED BY

Mark E. Mumby

Mark E. Mumby

9/18/15

16:15

RECEIVED BY

MA

MA

9-18-15

16:15

RELINQUISHED BY

MA

MA

9-18-15

18:00

RECEIVED BY

MA

MA

9/19/15

09:15

RELINQUISHED BY

MA

MA

RECEIVED BY

MA

MA

FedEx *NEW Package*
Express *US Airbill*

FedEx
Tracking
Number

8001 2142 2877

0200 Form
ID No.

FedEx Retrieval Copy

1 From
Date 9-18-15
Sender's Name Nick Martinez Phone 616 298-1037
Company ALS Environmental - Parachute
Address 127 E. 7th
City Parachute State Co. ZIP 81635

2 Your Internal Billing Reference

3 To
Recipient's Name ALS Environmental Phone 616 399-6070
Company ALS Holland Lab
Address 3352 128th AVE
City Holland State MI ZIP 49424

HOLD Weekday
FedEx location address
REQUIRED. ONLY available for
FedEx First Overnight.
01 ☐
HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.
31 ☐

4 Express Package Service

* To meet business.

Packages up to 150 lbs.
For packages over 150 lbs., use the new
FedEx Express Freight US Airbill.

Next Business Day

- 06 ☐ FedEx First Overnight
Earliest next business morning delivery to select
locations. Friday shipments will be delivered on
Monday unless SATURDAY Delivery is selected.
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.

2 or 3 Business Days

- 49 ☐ NEW FedEx 2Day A.M.
Second business morning.
Saturday Delivery NOT available.
03 ☐ FedEx 2Day
Second business afternoon. Thursday shipments
will be delivered on Monday unless SATURDAY
Delivery is selected.
20 ☐ FedEx Express Saver
Third business day.
Saturday Delivery NOT available.

5 Packaging

* Required unless Box 2000.

- 06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* 03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☒ Other
Letter

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?
One box must be checked.
☒ No 04 ☐ Yes
As per attached
Shipper's Declaration. ☐ Yes
Shipper's Declaration
not required. 06 ☐ Dry Ice
Dry Ice & UN 1845
☐ Cargo Aircraft Only

7 Payment B/R #:

- 1 ☒ Sender
Account No. in Section
1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check
Total Packages 1 Total Weight 1 lb. Credit Card Acct. No. 612

Your liability is limited to \$200 unless you declare a higher value. See the current FedEx Service Guide for details.

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8001 2142 2877

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 19-Sep-15 09:15

Work Order: 15091099

Received by: KRW

Checklist completed by Keith Wurenga
eSignature

19-Sep-15
Date

Reviewed by: Lee Arnold
eSignature

19-Sep-15
Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☒ No ☐ Not Present ☐

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Container/Temp Blank temperature in compliance? Yes ☒ No ☐

Sample(s) received on ice? Yes ☒ No ☐

Temperature(s)/Thermometer(s): 3.0/3.0 C SR2

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 9/19/2015 10:12:56 AM

Water - VOA vials have zero headspace? Yes ☐ No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt? Yes ☐ No ☐ N/A ☒

pH adjusted? Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: