



30-Jun-2015

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

Re: **Whiting Hill 6-6 Pit Investigation**

Work Order: **15061383**

Dear Mark,

ALS Environmental received 7 samples on 23-Jun-2015 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 that reads "Les Arnold".

Electronically approved by: Les Arnold

Les Arnold
Senior Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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Environmental 

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RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: Whiting Hill 6-6 Pit Investigation
Work Order: 15061383

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>
15061383-01	BH 04, 4-6'	Soil		6/16/2015 09:06	6/24/2015 08:00	<input type="checkbox"/>
15061383-02	BH 05, 4-6'	Soil		6/16/2015 09:24	6/24/2015 08:00	<input type="checkbox"/>
15061383-03	BH 08, 4-6'	Soil		6/16/2015 10:45	6/24/2015 08:00	<input type="checkbox"/>
15061383-04	BH 09, 4-6'	Soil		6/16/2015 11:12	6/24/2015 08:00	<input type="checkbox"/>
15061383-05	BH 11, 4-6'	Soil		6/16/2015 11:49	6/24/2015 08:00	<input type="checkbox"/>
15061383-06	BH 12, 4-6'	Soil		6/16/2015 12:09	6/24/2015 08:00	<input type="checkbox"/>
15061383-07	BH 14, 4-6'	Soil		6/16/2015 13:08	6/24/2015 08:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: Whiting Hill 6-6 Pit Investigation
WorkOrder: 15061383

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
Project: Whiting Hill 6-6 Pit Investigation
Work Order: 15061383

Case Narrative

Samples for the above noted Work Order were received on 06/24/2015. 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:

Batch 72784, Method DRO_8015_S, Sample 15061381-01A: The MS and MSD recoveries were outside of the control limit for DRO; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte.

No other 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: 30-Jun-15

Client: HRL Compliance Solutions, Inc
Project: Whiting Hill 6-6 Pit Investigation
Sample ID: BH 04, 4-6'
Collection Date: 6/16/2015 09:06 AM

Work Order: 15061383
Lab ID: 15061383-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 6/26/2015	Analyst: IT
DRO (C10-C28)	21		4.9	mg/Kg-dry	1	6/27/2015 03:03 AM
Surr: 4-Terphenyl-d14	74.3		39-133	%REC	1	6/27/2015 03:03 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep Date: 6/25/2015	Analyst: IT
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	6/25/2015 09:38 PM
Surr: Toluene-d8	104		50-150	%REC	1	6/25/2015 09:38 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep Date: 6/25/2015	Analyst: JNJ
Benzene	78		36	µg/Kg-dry	1	6/27/2015 07:16 AM
Ethylbenzene	470		36	µg/Kg-dry	1	6/27/2015 07:16 AM
m,p-Xylene	980		73	µg/Kg-dry	1	6/27/2015 07:16 AM
o-Xylene	240		36	µg/Kg-dry	1	6/27/2015 07:16 AM
Toluene	ND		36	µg/Kg-dry	1	6/27/2015 07:16 AM
Xylenes, Total	1,200		110	µg/Kg-dry	1	6/27/2015 07:16 AM
Surr: 1,2-Dichloroethane-d4	94.6		70-130	%REC	1	6/27/2015 07:16 AM
Surr: 4-Bromofluorobenzene	109		70-130	%REC	1	6/27/2015 07:16 AM
Surr: Dibromofluoromethane	98.8		70-130	%REC	1	6/27/2015 07:16 AM
Surr: Toluene-d8	105		70-130	%REC	1	6/27/2015 07:16 AM
MOISTURE						
			E160.3M			Analyst: PT
Moisture	17		0.050	% of sample	1	6/26/2015 09:50 AM

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

ALS Group USA, Corp

Date: 30-Jun-15

Client: HRL Compliance Solutions, Inc
Project: Whiting Hill 6-6 Pit Investigation
Sample ID: BH 05, 4-6'
Collection Date: 6/16/2015 09:24 AM

Work Order: 15061383
Lab ID: 15061383-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 6/26/2015	Analyst: IT
DRO (C10-C28)	3,700		26	mg/Kg-dry	5	6/29/2015 08:41 AM
Surr: 4-Terphenyl-d14	90.8		39-133	%REC	5	6/29/2015 08:41 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep Date: 6/25/2015	Analyst: IT
GRO (C6-C10)	310		3.2	mg/Kg-dry	1	6/25/2015 10:03 PM
Surr: Toluene-d8	98.2		50-150	%REC	1	6/25/2015 10:03 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep Date: 6/25/2015	Analyst: JNJ
Benzene	ND		39	µg/Kg-dry	1	6/27/2015 07:41 AM
Ethylbenzene	ND		39	µg/Kg-dry	1	6/27/2015 07:41 AM
m,p-Xylene	ND		77	µg/Kg-dry	1	6/27/2015 07:41 AM
o-Xylene	ND		39	µg/Kg-dry	1	6/27/2015 07:41 AM
Toluene	ND		39	µg/Kg-dry	1	6/27/2015 07:41 AM
Xylenes, Total	ND		120	µg/Kg-dry	1	6/27/2015 07:41 AM
Surr: 1,2-Dichloroethane-d4	97.5		70-130	%REC	1	6/27/2015 07:41 AM
Surr: 4-Bromofluorobenzene	104		70-130	%REC	1	6/27/2015 07:41 AM
Surr: Dibromofluoromethane	99.1		70-130	%REC	1	6/27/2015 07:41 AM
Surr: Toluene-d8	95.0		70-130	%REC	1	6/27/2015 07:41 AM
MOISTURE						
			E160.3M			Analyst: PT
Moisture	22		0.050	% of sample	1	6/26/2015 09:50 AM

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

ALS Group USA, Corp

Date: 30-Jun-15

Client: HRL Compliance Solutions, Inc
Project: Whiting Hill 6-6 Pit Investigation
Sample ID: BH 08, 4-6'
Collection Date: 6/16/2015 10:45 AM

Work Order: 15061383
Lab ID: 15061383-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 6/26/2015	Analyst: IT
DRO (C10-C28)	100		4.6	mg/Kg-dry	1	6/27/2015 04:02 AM
Surr: 4-Terphenyl-d14	82.2		39-133	%REC	1	6/27/2015 04:02 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep Date: 6/25/2015	Analyst: IT
GRO (C6-C10)	ND		2.8	mg/Kg-dry	1	6/25/2015 10:52 PM
Surr: Toluene-d8	108		50-150	%REC	1	6/25/2015 10:52 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep Date: 6/25/2015	Analyst: JNJ
Benzene	ND		33	µg/Kg-dry	1	6/27/2015 08:06 AM
Ethylbenzene	ND		33	µg/Kg-dry	1	6/27/2015 08:06 AM
m,p-Xylene	ND		67	µg/Kg-dry	1	6/27/2015 08:06 AM
o-Xylene	ND		33	µg/Kg-dry	1	6/27/2015 08:06 AM
Toluene	ND		33	µg/Kg-dry	1	6/27/2015 08:06 AM
Xylenes, Total	ND		100	µg/Kg-dry	1	6/27/2015 08:06 AM
Surr: 1,2-Dichloroethane-d4	95.0		70-130	%REC	1	6/27/2015 08:06 AM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	6/27/2015 08:06 AM
Surr: Dibromofluoromethane	98.2		70-130	%REC	1	6/27/2015 08:06 AM
Surr: Toluene-d8	98.6		70-130	%REC	1	6/27/2015 08:06 AM
MOISTURE						
			E160.3M			Analyst: PT
Moisture	10		0.050	% of sample	1	6/26/2015 09:50 AM

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

ALS Group USA, Corp

Date: 30-Jun-15

Client: HRL Compliance Solutions, Inc
Project: Whiting Hill 6-6 Pit Investigation
Sample ID: BH 09, 4-6'
Collection Date: 6/16/2015 11:12 AM

Work Order: 15061383
Lab ID: 15061383-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 6/26/2015	Analyst: IT
DRO (C10-C28)	23		4.7	mg/Kg-dry	1	6/27/2015 05:02 AM
Surr: 4-Terphenyl-d14	78.9		39-133	%REC	1	6/27/2015 05:02 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep Date: 6/25/2015	Analyst: IT
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	6/25/2015 11:17 PM
Surr: Toluene-d8	99.5		50-150	%REC	1	6/25/2015 11:17 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep Date: 6/25/2015	Analyst: JNJ
Benzene	ND		35	µg/Kg-dry	1	6/27/2015 08:32 AM
Ethylbenzene	ND		35	µg/Kg-dry	1	6/27/2015 08:32 AM
m,p-Xylene	ND		69	µg/Kg-dry	1	6/27/2015 08:32 AM
o-Xylene	ND		35	µg/Kg-dry	1	6/27/2015 08:32 AM
Toluene	ND		35	µg/Kg-dry	1	6/27/2015 08:32 AM
Xylenes, Total	ND		100	µg/Kg-dry	1	6/27/2015 08:32 AM
Surr: 1,2-Dichloroethane-d4	96.9		70-130	%REC	1	6/27/2015 08:32 AM
Surr: 4-Bromofluorobenzene	99.8		70-130	%REC	1	6/27/2015 08:32 AM
Surr: Dibromofluoromethane	97.2		70-130	%REC	1	6/27/2015 08:32 AM
Surr: Toluene-d8	95.0		70-130	%REC	1	6/27/2015 08:32 AM
MOISTURE						
			E160.3M			Analyst: PT
Moisture	13		0.050	% of sample	1	6/26/2015 09:50 AM

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

ALS Group USA, Corp

Date: 30-Jun-15

Client: HRL Compliance Solutions, Inc
Project: Whiting Hill 6-6 Pit Investigation
Sample ID: BH 11, 4-6'
Collection Date: 6/16/2015 11:49 AM

Work Order: 15061383
Lab ID: 15061383-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 6/26/2015	Analyst: IT
DRO (C10-C28)	1,000		5.0	mg/Kg-dry	1	6/27/2015 05:32 AM
Surr: 4-Terphenyl-d14	64.2		39-133	%REC	1	6/27/2015 05:32 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep Date: 6/25/2015	Analyst: IT
GRO (C6-C10)	300		3.0	mg/Kg-dry	1	6/25/2015 11:42 PM
Surr: Toluene-d8	94.1		50-150	%REC	1	6/25/2015 11:42 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep Date: 6/25/2015	Analyst: JNJ
Benzene	ND		37	µg/Kg-dry	1	6/27/2015 08:58 AM
Ethylbenzene	240		37	µg/Kg-dry	1	6/27/2015 08:58 AM
m,p-Xylene	1,100		73	µg/Kg-dry	1	6/27/2015 08:58 AM
o-Xylene	470		37	µg/Kg-dry	1	6/27/2015 08:58 AM
Toluene	ND		37	µg/Kg-dry	1	6/27/2015 08:58 AM
Xylenes, Total	1,600		110	µg/Kg-dry	1	6/27/2015 08:58 AM
Surr: 1,2-Dichloroethane-d4	94.3		70-130	%REC	1	6/27/2015 08:58 AM
Surr: 4-Bromofluorobenzene	109		70-130	%REC	1	6/27/2015 08:58 AM
Surr: Dibromofluoromethane	92.4		70-130	%REC	1	6/27/2015 08:58 AM
Surr: Toluene-d8	106		70-130	%REC	1	6/27/2015 08:58 AM
MOISTURE						
			E160.3M			Analyst: PT
Moisture	18		0.050	% of sample	1	6/26/2015 09:50 AM

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

ALS Group USA, Corp

Date: 30-Jun-15

Client: HRL Compliance Solutions, Inc
Project: Whiting Hill 6-6 Pit Investigation
Sample ID: BH 12, 4-6'
Collection Date: 6/16/2015 12:09 PM

Work Order: 15061383
Lab ID: 15061383-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 6/26/2015	Analyst: IT
DRO (C10-C28)	46		4.9	mg/Kg-dry	1	6/27/2015 06:02 AM
Surr: 4-Terphenyl-d14	84.7		39-133	%REC	1	6/27/2015 06:02 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep Date: 6/25/2015	Analyst: IT
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	6/26/2015 12:06 PM
Surr: Toluene-d8	106		50-150	%REC	1	6/26/2015 12:06 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep Date: 6/25/2015	Analyst: JNJ
Benzene	ND		36	µg/Kg-dry	1	6/27/2015 09:23 AM
Ethylbenzene	ND		36	µg/Kg-dry	1	6/27/2015 09:23 AM
m,p-Xylene	ND		73	µg/Kg-dry	1	6/27/2015 09:23 AM
o-Xylene	ND		36	µg/Kg-dry	1	6/27/2015 09:23 AM
Toluene	ND		36	µg/Kg-dry	1	6/27/2015 09:23 AM
Xylenes, Total	ND		110	µg/Kg-dry	1	6/27/2015 09:23 AM
Surr: 1,2-Dichloroethane-d4	101		70-130	%REC	1	6/27/2015 09:23 AM
Surr: 4-Bromofluorobenzene	105		70-130	%REC	1	6/27/2015 09:23 AM
Surr: Dibromofluoromethane	98.0		70-130	%REC	1	6/27/2015 09:23 AM
Surr: Toluene-d8	95.6		70-130	%REC	1	6/27/2015 09:23 AM
MOISTURE						
			E160.3M			Analyst: PT
Moisture	17		0.050	% of sample	1	6/26/2015 09:50 AM

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

ALS Group USA, Corp

Date: 30-Jun-15

Client: HRL Compliance Solutions, Inc
Project: Whiting Hill 6-6 Pit Investigation
Sample ID: BH 14, 4-6'
Collection Date: 6/16/2015 01:08 PM

Work Order: 15061383
Lab ID: 15061383-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 6/26/2015	Analyst: IT
DRO (C10-C28)	72		5.0	mg/Kg-dry	1	6/27/2015 06:32 AM
Surr: 4-Terphenyl-d14	79.8		39-133	%REC	1	6/27/2015 06:32 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep Date: 6/25/2015	Analyst: IT
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	6/25/2015 02:36 PM
Surr: Toluene-d8	99.5		50-150	%REC	1	6/25/2015 02:36 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B		Prep Date: 6/25/2015	Analyst: JNJ
Benzene	ND		36	µg/Kg-dry	1	6/27/2015 05:53 PM
Ethylbenzene	ND		36	µg/Kg-dry	1	6/27/2015 05:53 PM
m,p-Xylene	ND		72	µg/Kg-dry	1	6/27/2015 05:53 PM
o-Xylene	ND		36	µg/Kg-dry	1	6/27/2015 05:53 PM
Toluene	ND		36	µg/Kg-dry	1	6/27/2015 05:53 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	6/27/2015 05:53 PM
Surr: 1,2-Dichloroethane-d4	97.6		70-130	%REC	1	6/27/2015 05:53 PM
Surr: 4-Bromofluorobenzene	98.8		70-130	%REC	1	6/27/2015 05:53 PM
Surr: Dibromofluoromethane	88.4		70-130	%REC	1	6/27/2015 05:53 PM
Surr: Toluene-d8	100		70-130	%REC	1	6/27/2015 05:53 PM
MOISTURE						
			E160.3M			Analyst: PT
Moisture	17		0.050	% of sample	1	6/26/2015 09:50 AM

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

ALS Group USA, Corp

Date: 30-Jun-15

Client: HRL Compliance Solutions, Inc
Work Order: 15061383
Project: Whiting Hill 6-6 Pit Investigation

QC BATCH REPORT

Batch ID: **72784** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-72784-72784				Units: mg/Kg		Analysis Date: 6/26/2015 08:03 PM		
Client ID:		Run ID: GC8_150626A				SeqNo: 3344663		Prep Date: 6/26/2015		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>	1.783	0	2	0	89.1	39-133	0			

LCS				Sample ID: DLCSS1-72784-72784				Units: mg/Kg			Analysis Date: 6/26/2015 08:33 PM			
Client ID:				Run ID: GC8_150626A				SeqNo: 3344664			Prep Date: 6/26/2015		DF: 1	
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	187.3	5.0	200	0	93.6	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.674	0	2	0	83.7	39-133	0			

MS		Sample ID: 15061381-01A MS					Units: mg/Kg		Analysis Date: 6/26/2015 09:03 PM		
Client ID:			Run ID: GC8_150626A			SeqNo: 3344665		Prep Date: 6/26/2015		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

DRO (C10-C28)	844.7	41	325.9	807.8	11.3	48-110	0			S
<i>Surr: 4-Terphenyl-d14</i>	3.226	0	3.259	0	99	39-133	0			

MSD				Sample ID: 15061381-01A MSD				Units: mg/Kg		Analysis Date: 6/26/2015 09:33 PM			
Client ID:				Run ID: GC8_150626A				SeqNo: 3344666		Prep Date: 6/26/2015		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			

DRO (C10-C28)	906.4	40	322.5	807.8	30.6	48-110	844.7	7.06	30	S
<i>Surr: 4-Terphenyl-d14</i>	3.102	0	3.225	0	96.2	39-133	3.226	3.93	30	

The following samples were analyzed in this batch:

15061383-01A	15061383-02A	15061383-03A
15061383-04A	15061383-05A	15061383-06A
15061383-07A		

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

Client: HRL Compliance Solutions, Inc
Work Order: 15061383
Project: Whiting Hill 6-6 Pit Investigation

QC BATCH REPORT

Batch ID: **72758** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-72758-72758				Units: µg/Kg		Analysis Date: 6/25/2015 02:12 PM		
Client ID:		Run ID: GC9_150625A				SeqNo: 3342974		Prep Date: 6/25/2015		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								
Surr: Toluene-d8	5072	0	5000	0	101	50-150	0			

LCS		Sample ID: LCS-72758-72758				Units: µg/Kg		Analysis Date: 6/25/2015 01:47 PM		
Client ID:		Run ID: GC9_150625A				SeqNo: 3342973		Prep Date: 6/25/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	426500	2,500	500000	0	85.3	70-130	0			
Surr: Toluene-d8	4732	0	5000	0	94.6	50-150	0			

MS		Sample ID: 15061383-07A MS				Units: µg/Kg		Analysis Date: 6/25/2015 05:05 PM		
Client ID: BH 14, 4-6'		Run ID: GC9_150625A				SeqNo: 3342982		Prep Date: 6/25/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	482300	2,500	500000	0	96.5	70-130	0			
Surr: Toluene-d8	5874	0	5000	0	117	50-150	0			

MSD		Sample ID: 15061383-07A MSD				Units: µg/Kg		Analysis Date: 6/25/2015 05:30 PM		
Client ID: BH 14, 4-6'		Run ID: GC9_150625A				SeqNo: 3342983		Prep Date: 6/25/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	465000	2,500	500000	0	93	70-130	482300	3.64	30	
Surr: Toluene-d8	4179	0	5000	0	83.6	50-150	5874	33.7	30	R

The following samples were analyzed in this batch:

15061383-01A	15061383-02A	15061383-03A
15061383-04A	15061383-05A	15061383-06A
15061383-07A		

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

Client: HRL Compliance Solutions, Inc
Work Order: 15061383
Project: Whiting Hill 6-6 Pit Investigation

QC BATCH REPORT

Batch ID: **72756** Instrument ID **VMS5** Method: **SW8260B**

Sample ID: MBLK-72756-72756				Units: µg/Kg			Analysis Date: 6/25/2015 02:32 PM			
Client ID:		Run ID: VMS5_150625A			SeqNo: 3342320		Prep Date: 6/25/2015		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								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>972</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.2</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>976.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.6</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>978.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.8</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>988</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.8</i>	<i>70-130</i>	<i>0</i>			

LCS				Sample ID: LCS-72756-72756			Units: µg/Kg		Analysis Date: 6/25/2015 01:15 PM		
Client ID:			Run ID: VMS5_150625A			SeqNo: 3342319		Prep Date: 6/25/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	901.5	30	1000	0	90.2	75-125	0				
Ethylbenzene	919.5	30	1000	0	92	75-125	0				
m,p-Xylene	1835	60	2000	0	91.8	80-125	0				
o-Xylene	895	30	1000	0	89.5	75-125	0				
Toluene	922.5	30	1000	0	92.2	70-125	0				
Xylenes, Total	2730	90	3000	0	91	75-125	0				
Surr: 1,2-Dichloroethane-d4	956.5	0	1000	0	95.6	70-130	0				
Surr: 4-Bromofluorobenzene	1004	0	1000	0	100	70-130	0				
Surr: Dibromofluoromethane	978.5	0	1000	0	97.8	70-130	0				
Surr: Toluene-d8	982.5	0	1000	0	98.2	70-130	0				

MS				Sample ID: 15061383-07A MS			Units: µg/Kg		Analysis Date: 6/27/2015 06:17 PM		
Client ID: BH 14, 4-6'			Run ID: VMS8_150626C		SeqNo: 3344229		Prep Date: 6/25/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1132	30	1000	0	113	75-125	0				
Ethylbenzene	1155	30	1000	0	116	75-125	0				
m,p-Xylene	2330	60	2000	0	117	80-125	0				
o-Xylene	1115	30	1000	0	112	75-125	0				
Toluene	1175	30	1000	0	118	70-125	0				
Xylenes, Total	3446	90	3000	0	115	75-125	0				
Surr: 1,2-Dichloroethane-d4	1024	0	1000	0	102	70-130	0				
Surr: 4-Bromofluorobenzene	1043	0	1000	0	104	70-130	0				
Surr: Dibromofluoromethane	939	0	1000	0	93.9	70-130	0				
Surr: Toluene-d8	999	0	1000	0	99.9	70-130	0				

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

Client: HRL Compliance Solutions, Inc
Work Order: 15061383
Project: Whiting Hill 6-6 Pit Investigation

QC BATCH REPORT

Batch ID: **72756** Instrument ID **VMS5** Method: **SW8260B**

MSD				Sample ID: 15061383-07A MSD			Units: µg/Kg		Analysis Date: 6/27/2015 06:42 PM	
Client ID: BH 14, 4-6'				Run ID: VMS8_150626C			SeqNo: 3344230		Prep Date: 6/25/2015	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1056	30	1000	0	106	75-125	1132	6.86	30	
Ethylbenzene	1099	30	1000	0	110	75-125	1155	4.97	30	
m,p-Xylene	2258	60	2000	0	113	80-125	2330	3.18	30	
o-Xylene	1054	30	1000	0	105	75-125	1115	5.62	30	
Toluene	1090	30	1000	0	109	70-125	1175	7.46	30	
Xylenes, Total	3312	90	3000	0	110	75-125	3446	3.97	30	
Surr: 1,2-Dichloroethane-d4	986	0	1000	0	98.6	70-130	1024	3.78	30	
Surr: 4-Bromofluorobenzene	1027	0	1000	0	103	70-130	1043	1.55	30	
Surr: Dibromofluoromethane	891.5	0	1000	0	89.2	70-130	939	5.19	30	
Surr: Toluene-d8	992.5	0	1000	0	99.2	70-130	999	0.653	30	

The following samples were analyzed in this batch:

15061383-01A	15061383-02A	15061383-03A
15061383-04A	15061383-05A	15061383-06A
15061383-07A		

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

Client: HRL Compliance Solutions, Inc
Work Order: 15061383
Project: Whiting Hill 6-6 Pit Investigation

QC BATCH REPORT

Batch ID: **R166497** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R166497				Units: % of sample		Analysis Date: 6/26/2015 09:50 AM		
Client ID:		Run ID: MOIST_150626A				SeqNo: 3345580		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-R166497				Units: % of sample		Analysis Date: 6/26/2015 09:50 AM		
Client ID:		Run ID: MOIST_150626A				SeqNo: 3345579		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: 15061360-04B DUP				Units: % of sample		Analysis Date: 6/26/2015 09:50 AM		
Client ID:		Run ID: MOIST_150626A				SeqNo: 3345561		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 7.72 0.050 0 0 0 8.34 7.72 20

DUP		Sample ID: 15061383-01A DUP				Units: % of sample		Analysis Date: 6/26/2015 09:50 AM		
Client ID: BH 04, 4-6'		Run ID: MOIST_150626A				SeqNo: 3345569		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 16.7 0.050 0 0 0 17.3 3.53 20

The following samples were analyzed in this batch:

15061383-01A	15061383-02A	15061383-03A
15061383-04A	15061383-05A	15061383-06A
15061383-07A		

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



ALS Laboratory Group

3352 128th Ave. Holland, MI 49424
 TF: (800) 443-1511 PH: (616) 399-6070 FX: (616) 399-6185

Chain-of-Custody

Form 20216

WORKORDER #

15061383

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME Whiting Hill 8-8 Pit Investigation

SAMPLER

Casey Richardson

DATE

6/22/15

SITE ID

Pit Investigation

TURNAROUND

Standard

PROJECT No

15-164

EDD FORMAT

PURCHASE ORDER

COMPANY NAME

HRL Compliance Solutions, Inc.

BILL TO COMPANY

HRL

SEND REPORT TO

Mark Mumby

INVOICE ATTN TO

ADDRESS

2385 F 1/2 Road

ADDRESS

CITY / STATE / ZIP

Grand Junction, CO. 81505

CITY / STATE / ZIP

PHONE

970-243-3271

PHONE

FAX

970-243-3280

FAX

E-MAIL

mmumby@hrlcomp.com
 crichardson@hrlcomp.com

E-MAIL

Lab ID

Field ID

Matrix

Sample Date

Sample Time

Bottles

Pres.

QC

DRO

GRO

BTEX

1

BH 04, 4-6'

Soil

6/16/2015

906

1

8

x

x

x

2

BH 05, 4-6'

Soil

6/16/2015

924

1

8

x

x

x

3

BH 08, 4-6'

Soil

6/16/2015

1045

1

8

x

x

x

4

BH 09, 4-6'

Soil

6/16/2015

1112

1

8

x

x

x

5

BH 11, 4-6'

Soil

6/16/2015

1149

1

8

x

x

x

6

BH 12, 4-6'

Soil

6/16/2015

1209

1

8

x

x

x

7

BH 14, 4-6'

Soil

6/16/2015

1308

1

8

x

x

x

*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:

QC PACKAGE (check below)

x

LEVEL II (Standard QC)

LEVEL III (Std QC + forms)

LEVEL IV (Std QC + forms + raw data)

2.6"

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

Matthew Fournet

Matthew Fournet

6/22/15

9:00

RECEIVED BY

Matthew Fournet

Matthew Fournet

6-22-15

11:00

RELINQUISHED BY

Karen L. Fournet

Karen L. Fournet

6-22-15

1400

RECEIVED BY

Karen L. Fournet

Karen L. Fournet

6/24/15

0800

8/22/2015

FedEx Ship Manager - Print Your Label(s)

From: (816) 298-1033
 Nick Martinez
 ALS Environmental Parachute
 Parachute service center
 127 EAST 1st ST
 PARACHUTE, CO 81635

Origin ID: RILA

FedEx
 Express



J151215022303uw

Ship Date: 22JUN15
 ActWgt: 55.0 LB
 CAD: 2264840/NET3610

Dims: 24 X 15 X 15 IN

SHIP TO: (616) 399-6070

BILL SENDER

sample receiving
 ALS Environmental Holland Lab
 3352 128TH AVE

HOLLAND, MI 49424

Delivery Address Bar Code



Ref # 082215-1
 Invoice #
 PO # Parachute
 Dept #

4 of 8

TUE - 23 JUN 10:30A
 PRIORITY OVERNIGHT

NPS# 7738 9060 9616

8263

Mstr# 7738 9060 9178

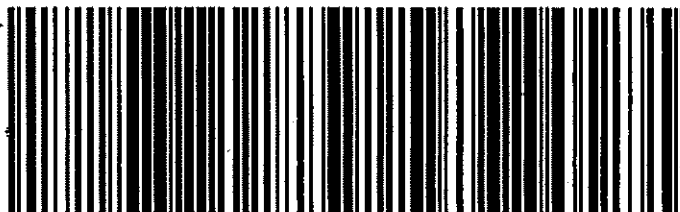
8201

49424

MI-US

GRR

XX HLMA



537.118A0EE4B

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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ALS Parachute Quality Seal

Time 1740 ID: 6 22

Name: M/D

2602

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 23-Jun-15 00:00

Work Order: 15061383

Received by: KRW

Checklist completed by Keith Wurenga
eSignature

24-Jun-15
Date

Reviewed by: Lee Arnold
eSignature

24-Jun-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): 2.6 C SR2

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 6/24/2015 10:20:00 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: