



03-May-2019

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

Re: **RMV 38-17 Spill**

Work Order: **19041738**

Dear Kris,

ALS Environmental received 4 samples on 26-Apr-2019 10:00 AM for the analyses presented in the following report.

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

Sample results are compliant with industry accepted practices and Quality Control 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 26.

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

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton", is written over a faint, larger version of the same signature.

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

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

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Client: HRL Compliance Solutions, Inc
Project: RMV 38-17 Spill
Work Order: 19041738

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>
19041738-01	BKGD 1	Soil		4/24/2019 12:30	4/26/2019 10:00	<input type="checkbox"/>
19041738-02	BKGD 2	Soil		4/24/2019 12:45	4/26/2019 10:00	<input type="checkbox"/>
19041738-03	BKGD 3	Soil		4/24/2019 13:00	4/26/2019 10:00	<input type="checkbox"/>
19041738-04	Point of Release	Soil		4/24/2019 13:15	4/26/2019 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc

Project: RMV 38-17 Spill

Work Order: 19041738

Case Narrative

Batch 135314, Method PH_9045_S, Sample 19041738-02A: Possible bias due to sodium error at pH > 10. A low sodium electrode is not used in the measurement process.

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
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 Reporting Limit, 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	Milligrams per Kilogram
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	

s.u. Standard Units

ALS Group, USA

Date: 03-May-19

Client: HRL Compliance Solutions, Inc
Project: RMV 38-17 Spill
Sample ID: BKGD 1
Collection Date: 4/24/2019 12:30 PM

Work Order: 19041738
Lab ID: 19041738-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP							
Arsenic	4.8		0.095	0.36	mg/Kg-dry	1	5/1/2019 00:27
SOLUBLE CATIONS FOR SAR							
Calcium	110		0.86	5.0	mg/L	10	5/1/2019 13:39
Magnesium	10		0.068	2.0	mg/L	10	5/1/2019 13:39
Sodium	20		0.34	2.0	mg/L	10	5/1/2019 13:39
SODIUM ADSORPTION RATIO							
Sodium Adsorption Ratio	0.48		0.010	0.010	none	1	5/1/2019
ELECTRICAL CONDUCTIVITY (SAR)							
Electrical Conductivity @ Saturation	0.035		0.00055	0.0050	mmhos/cm @25°	20	5/2/2019 16:45
MOISTURE							
Moisture	8.9		0.10	0.10	% of sample	1	5/1/2019 13:26
PH							
pH	8.77		0.10	0.100	s.u.	1	4/30/2019 14:02
Temperature	21.4		0.10	0.100	C	1	4/30/2019 14:02

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

ALS Group, USA

Date: 03-May-19

Client: HRL Compliance Solutions, Inc
Project: RMV 38-17 Spill
Sample ID: BKGD 2
Collection Date: 4/24/2019 12:45 PM

Work Order: 19041738
Lab ID: 19041738-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP							
Arsenic	7.9		0.098	0.38	mg/Kg-dry	1	5/1/2019 00:33
Method: SW846 6010C Prep: SW3050B / 4/30/19 Analyst: DSC							
SOLUBLE CATIONS FOR SAR							
Calcium	6.3		0.86	5.0	mg/L	10	5/1/2019 13:40
Magnesium	8.2		0.068	2.0	mg/L	10	5/1/2019 13:40
Sodium	230		0.34	2.0	mg/L	10	5/1/2019 13:40
Method: SW6020A Prep: USDA Method 20B / 5/1/19 Analyst: STP							
SODIUM ADSORPTION RATIO							
Sodium Adsorption Ratio	14		0.010	0.010	none	1	5/1/2019
Method: USDA H60 METHOD 2 Prep: USDA Method 20B / 5/1/19 Analyst: STP							
ELECTRICAL CONDUCTIVITY (SAR)							
Electrical Conductivity @ Saturation	0.051		0.00055	0.0050	mmhos/cm @25°	20	5/2/2019 16:45
Method: USDA H60 METHOD 2 Prep: USDA Method 20B / 5/1/19 Analyst: DVD							
MOISTURE							
Moisture	4.0		0.10	0.10	% of sample	1	5/1/2019 13:26
Method: SW3550C Analyst: KTP							
PH							
pH	10.2		0.10	0.100	s.u.	1	4/30/2019 14:02
Temperature	21.4		0.10	0.100	C	1	4/30/2019 14:02
Method: SW9045D Prep: EXTRACT / 4/30/19 Analyst: RZM							

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

ALS Group, USA

Date: 03-May-19

Client: HRL Compliance Solutions, Inc
Project: RMV 38-17 Spill
Sample ID: BKGD 3
Collection Date: 4/24/2019 01:00 PM

Work Order: 19041738
Lab ID: 19041738-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP							
Arsenic	6.9		0.092	0.35	mg/Kg-dry	1	5/1/2019 00:39
Method: SW846 6010C Prep: SW3050B / 4/30/19 Analyst: DSC							
SOLUBLE CATIONS FOR SAR							
Calcium	14		0.86	5.0	mg/L	10	5/1/2019 13:42
Magnesium	2.7		0.068	2.0	mg/L	10	5/1/2019 13:42
Sodium	320		0.34	2.0	mg/L	10	5/1/2019 13:42
Method: SW6020A Prep: USDA Method 20B / 5/1/19 Analyst: STP							
SODIUM ADSORPTION RATIO							
Sodium Adsorption Ratio	20		0.010	0.010	none	1	5/1/2019
Method: USDA H60 METHOD 2 Prep: USDA Method 20B / 5/1/19 Analyst: STP							
ELECTRICAL CONDUCTIVITY (SAR)							
Electrical Conductivity @ Saturation	0.079		0.00055	0.0050	mmhos/cm @25°	20	5/2/2019 16:45
Method: USDA H60 METHOD 2 Prep: USDA Method 20B / 5/1/19 Analyst: DVD							
MOISTURE							
Moisture	3.6		0.10	0.10	% of sample	1	5/1/2019 13:26
Method: SW3550C Analyst: KTP							
PH							
pH	9.75		0.10	0.100	s.u.	1	4/30/2019 14:02
Temperature	21.6		0.10	0.100	C	1	4/30/2019 14:02
Method: SW9045D Prep: EXTRACT / 4/30/19 Analyst: RZM							

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

Client: HRL Compliance Solutions, Inc
 Project: RMV 38-17 Spill
 Sample ID: Point of Release
 Collection Date: 4/24/2019 01:15 PM

Work Order: 19041738
 Lab ID: 19041738-04
 Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
				Method: SW8015M		Prep: SW3546 / 4/29/19	Analyst: KB
DRO (C10-C28)	4.7	J	2.9	5.1	mg/Kg-dry	1	4/29/2019 17:45
Surr: 4-Terphenyl-d14	48.9			33-111	%REC	1	4/29/2019 17:45
GASOLINE RANGE ORGANICS BY GC-FID							
				Method: SW8015D		Prep: SW5035 / 4/26/19	Analyst: KB
GRO (C6-C10)	U		2.2	5.2	mg/Kg	1	4/29/2019 23:27
Surr: Toluene-d8	86.0			71-123	%REC	1	4/29/2019 23:27
MERCURY BY CVAA							
				Method: SW7471B		Prep: SW7471 / 5/1/19	Analyst: RSH
Mercury	0.029		0.0016	0.016	mg/Kg-dry	1	5/1/2019 13:21
METALS ANALYSIS BY ICP							
				Method: SW846 6010C		Prep: SW3050B / 4/30/19	Analyst: DSC
Arsenic	4.8		0.096	0.37	mg/Kg-dry	1	5/1/2019 00:58
Barium	1,100		0.15	0.37	mg/Kg-dry	1	5/2/2019 18:36
Cadmium	U		0.035	0.74	mg/Kg-dry	1	5/1/2019 00:58
Chromium	8.3		0.021	0.37	mg/Kg-dry	1	5/1/2019 00:58
Copper	5.9		0.16	0.74	mg/Kg-dry	1	5/1/2019 00:58
Lead	8.0		0.078	0.37	mg/Kg-dry	1	5/1/2019 00:58
Nickel	10		0.15	0.37	mg/Kg-dry	1	5/1/2019 00:58
Selenium	U		0.21	0.74	mg/Kg-dry	1	5/1/2019 00:58
Silver	U		0.046	0.37	mg/Kg-dry	1	5/1/2019 00:58
Zinc	41		0.059	0.74	mg/Kg-dry	1	5/1/2019 00:58
SOLUBLE CATIONS FOR SAR							
				Method: SW6020A		Prep: USDA Method 20B / 5/1/19	Analyst: STP
Calcium	29		0.86	5.0	mg/L	10	5/1/2019 13:44
Magnesium	4.2		0.068	2.0	mg/L	10	5/1/2019 13:44
Sodium	420		0.34	2.0	mg/L	10	5/1/2019 13:44
SODIUM ADSORPTION RATIO							
				Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 5/1/19	Analyst: STP
Sodium Adsorption Ratio	19		0.010	0.010	none	1	5/1/2019
SEMI-VOLATILE ORGANIC COMPOUNDS							
				Method: SW846 8270D		Prep: SW3546 / 4/29/19	Analyst: KAW
Acenaphthene	U		4.9	6.8	µg/Kg-dry	1	4/30/2019 14:45
Anthracene	U		4.8	6.8	µg/Kg-dry	1	4/30/2019 14:45
Benzo(a)anthracene	U		5.9	6.8	µg/Kg-dry	1	4/30/2019 14:45
Benzo(a)pyrene	U		4.2	6.8	µg/Kg-dry	1	4/30/2019 14:45
Benzo(b)fluoranthene	U		5.1	6.8	µg/Kg-dry	1	4/30/2019 14:45
Benzo(k)fluoranthene	U		5.1	6.8	µg/Kg-dry	1	4/30/2019 14:45
Chrysene	U		5.5	6.8	µg/Kg-dry	1	4/30/2019 14:45
Dibenzo(a,h)anthracene	U		3.7	6.8	µg/Kg-dry	1	4/30/2019 14:45
Fluoranthene	U		3.3	6.8	µg/Kg-dry	1	4/30/2019 14:45

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

ALS Group, USA

Date: 03-May-19

Client: HRL Compliance Solutions, Inc
Project: RMV 38-17 Spill
Sample ID: Point of Release
Collection Date: 4/24/2019 01:15 PM

Work Order: 19041738
Lab ID: 19041738-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene		U	4.9	6.8	µg/Kg-dry	1	4/30/2019 14:45
Indeno(1,2,3-cd)pyrene		U	4.7	6.8	µg/Kg-dry	1	4/30/2019 14:45
Naphthalene		U	4.3	6.8	µg/Kg-dry	1	4/30/2019 14:45
Pyrene		U	1.2	6.8	µg/Kg-dry	1	4/30/2019 14:45
Surr: 2-Fluorobiphenyl	59.4			44-107	%REC	1	4/30/2019 14:45
Surr: 4-Terphenyl-d14	75.2			52-123	%REC	1	4/30/2019 14:45
Surr: Nitrobenzene-d5	57.4			41-94	%REC	1	4/30/2019 14:45
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 4/26/19		Analyst: JEB
Benzene		U	0.0053	0.031	mg/Kg	1	4/27/2019 17:48
Ethylbenzene		U	0.0066	0.031	mg/Kg	1	4/27/2019 17:48
m,p-Xylene		U	0.015	0.062	mg/Kg	1	4/27/2019 17:48
o-Xylene		U	0.012	0.031	mg/Kg	1	4/27/2019 17:48
Toluene		U	0.0085	0.031	mg/Kg	1	4/27/2019 17:48
Xylenes, Total		U	0.027	0.094	mg/Kg	1	4/27/2019 17:48
Surr: 1,2-Dichloroethane-d4	94.4			70-130	%REC	1	4/27/2019 17:48
Surr: 4-Bromofluorobenzene	98.0			70-130	%REC	1	4/27/2019 17:48
Surr: Dibromofluoromethane	86.0			70-130	%REC	1	4/27/2019 17:48
Surr: Toluene-d8	97.4			70-130	%REC	1	4/27/2019 17:48
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 5/1/19		Analyst: DVD
Electrical Conductivity @ Saturation	0.12		0.00055	0.0050	mmhos/cm @25°	20	5/2/2019 16:45
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JZB
Chromium, Trivalent	8.3		0.32	1.0	mg/Kg-dry	1	5/3/2019 10:06
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 5/2/19		Analyst: RZM
Chromium, Hexavalent		U	0.87	1.0	mg/Kg-dry	1	5/2/2019 18:11
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	2.3		0.10	0.10	% of sample	1	5/1/2019 13:26
PH			Method: SW9045D		Prep: EXTRACT / 4/30/19		Analyst: RZM
pH	8.91		0.10	0.100	s.u.	1	4/30/2019 14:02
Temperature	21.6		0.10	0.100	C	1	4/30/2019 14:02

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

Client: HRL Compliance Solutions, Inc
Work Order: 19041738
Project: RMV 38-17 Spill

QC BATCH REPORT

Batch ID: **135221** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-135221-135221				Units: mg/Kg		Analysis Date: 4/29/2019 04:47 PM		
Client ID:		Run ID: GC8_190429A		SeqNo: 5632525		Prep Date: 4/29/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	U	5.0								
<i>Surr: 4-Terphenyl-d14</i>	1.973	0	3.33	0	59.2	33-111	0			

LCS		Sample ID: DLCSS1-135221-135221				Units: mg/Kg		Analysis Date: 4/29/2019 05:16 PM		
Client ID:		Run ID: GC8_190429A		SeqNo: 5632527		Prep Date: 4/29/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	274.7	5.0	333	0	82.5	58-111	0			
<i>Surr: 4-Terphenyl-d14</i>	1.795	0	3.33	0	53.9	33-111	0			

MS		Sample ID: 19041738-04A MS				Units: mg/Kg		Analysis Date: 4/29/2019 06:14 PM		
Client ID: Point of Release		Run ID: GC8_190429A		SeqNo: 5632530		Prep Date: 4/29/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	238.4	4.8	321.7	4.566	72.7	58-111	0			
<i>Surr: 4-Terphenyl-d14</i>	1.542	0	3.217	0	47.9	33-111	0			

MSD		Sample ID: 19041738-04A MSD				Units: mg/Kg		Analysis Date: 4/29/2019 06:44 PM		
Client ID: Point of Release		Run ID: GC8_190429A		SeqNo: 5632532		Prep Date: 4/29/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	236.7	5.0	329.9	4.566	70.4	58-111	238.4	0.718	30	
<i>Surr: 4-Terphenyl-d14</i>	1.605	0	3.299	0	48.6	33-111	1.542	4	30	

The following samples were analyzed in this batch:

19041738-04A

Client: HRL Compliance Solutions, Inc
Work Order: 19041738
Project: RMV 38-17 Spill

QC BATCH REPORT

Batch ID: **135186** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-135186-135186				Units: µg/Kg-dry		Analysis Date: 4/29/2019 06:35 PM		
Client ID:		Run ID: GC9_190429A		SeqNo: 5632889		Prep Date: 4/26/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	5,000								
<i>Surr: Toluene-d8</i>	4252	0	5000	0	85	71-123	0			

LCS		Sample ID: LCS-135186-135186				Units: µg/Kg-dry		Analysis Date: 4/29/2019 05:08 PM		
Client ID:		Run ID: GC9_190429A		SeqNo: 5632887		Prep Date: 4/26/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	523400	5,000	500000	0	105	71-123	0			
<i>Surr: Toluene-d8</i>	5168	0	5000	0	103	71-123	0			

MS		Sample ID: 19041738-04A MS				Units: µg/Kg-dry		Analysis Date: 4/30/2019 12:54 PM		
Client ID: Point of Release		Run ID: GC9_190429A		SeqNo: 5632901		Prep Date: 4/26/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	496900	5,000	501000	1237	98.9	71-123	0			
<i>Surr: Toluene-d8</i>	5389	0	5010	0	108	71-123	0			

MSD		Sample ID: 19041738-04A MSD				Units: µg/Kg-dry		Analysis Date: 4/30/2019 01:23 AM		
Client ID: Point of Release		Run ID: GC9_190429A		SeqNo: 5632899		Prep Date: 4/26/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	516200	5,200	517000	1237	99.6	71-123	496900	3.81	30	
<i>Surr: Toluene-d8</i>	5115	0	5170	0	99	71-123	5389	5.2	30	

The following samples were analyzed in this batch:

19041738-04A

Client: HRL Compliance Solutions, Inc
 Work Order: 19041738
 Project: RMV 38-17 Spill

QC BATCH REPORT

Batch ID: 135301 Instrument ID ICP2 Method: SW846 6010C

MBLK		Sample ID: MBLK-135301-135301				Units: mg/Kg		Analysis Date: 4/30/2019 11:43 PM		
Client ID:		Run ID: ICP2_190430A			SeqNo: 5633710		Prep Date: 4/30/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.23								
Barium	U	0.23								
Cadmium	U	0.46								
Chromium	0.01991	0.23								J
Copper	U	0.46								
Lead	U	0.23								
Nickel	U	0.23								
Selenium	U	0.46								
Silver	U	0.23								
Zinc	0.04306	0.46								J

LCS		Sample ID: LCS-135301-135301				Units: mg/Kg		Analysis Date: 4/30/2019 11:49 PM		
Client ID:		Run ID: ICP2_190430A			SeqNo: 5633711		Prep Date: 4/30/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.563	0.24	4.753	0	96	80-120	0			
Cadmium	4.696	0.48	4.753	0	98.8	80-120	0			
Chromium	4.984	0.24	4.753	0	105	80-120	0			
Copper	4.895	0.48	4.753	0	103	80-120	0			
Lead	5.249	0.24	4.753	0	110	80-120	0			
Nickel	4.858	0.24	4.753	0	102	80-120	0			
Selenium	4.548	0.48	4.753	0	95.7	80-120	0			
Silver	4.853	0.24	4.753	0	102	80-120	0			
Zinc	4.572	0.48	4.753	0	96.2	80-120	0			

LCS		Sample ID: LCS-135301-135301				Units: mg/Kg		Analysis Date: 5/2/2019 05:47 PM		
Client ID:		Run ID: ICP2_190502A			SeqNo: 5638244		Prep Date: 4/30/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	4.923	0.24	4.753	0	104	80-120	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 19041738
 Project: RMV 38-17 Spill

QC BATCH REPORT

Batch ID: 135301 Instrument ID ICP2 Method: SW846 6010C

MS		Sample ID: 19041733-01AMS				Units: mg/Kg		Analysis Date: 5/1/2019 12:14 AM		
Client ID:		Run ID: ICP2_190430A				SeqNo: 5633715		Prep Date: 4/30/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	60.05	0.37	7.429	42.9	231	75-125	0			SO
Chromium	130	0.37	7.429	118.8	151	75-125	0			SO
Copper	335.1	0.74	7.429	266.3	926	75-125	0			SO
Lead	4.926	0.37	7.429	-3.062	108	75-125	0			
Nickel	127.6	0.37	7.429	108.1	263	75-125	0			SO
Selenium	9.792	0.74	7.429	2.759	94.7	75-125	0			
Silver	5.639	0.37	7.429	-2.197	105	75-125	0			
Zinc	89.29	0.74	7.429	60.02	394	75-125	0			SO

MS		Sample ID: 19041733-01AMS				Units: mg/Kg		Analysis Date: 5/2/2019 07:59 PM		
Client ID:		Run ID: ICP2_190502A				SeqNo: 5638265		Prep Date: 4/30/2019		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	95.3	3.7	7.429	58.14	500	75-125	0			SO

MSD		Sample ID: 19041733-01AMSD				Units: mg/Kg		Analysis Date: 5/1/2019 12:20 AM		
Client ID:		Run ID: ICP2_190430A				SeqNo: 5633716		Prep Date: 4/30/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	60.78	0.37	7.396	42.9	242	75-125	60.05	1.21	20	SO
Chromium	122.2	0.37	7.396	118.8	46.8	75-125	130	6.15	20	SO
Copper	316.6	0.74	7.396	266.3	680	75-125	335.1	5.68	20	SO
Lead	8.455	0.37	7.396	-3.062	156	75-125	4.926	52.7	20	SR
Nickel	117.4	0.37	7.396	108.1	125	75-125	127.6	8.38	20	SO
Selenium	9.744	0.74	7.396	2.759	94.4	75-125	9.792	0.497	20	
Silver	5.703	0.37	7.396	-2.197	107	75-125	5.639	1.13	20	
Zinc	101.7	0.74	7.396	60.02	563	75-125	89.29	13	20	SO

MSD		Sample ID: 19041733-01AMSD				Units: mg/Kg		Analysis Date: 5/2/2019 08:05 PM		
Client ID:		Run ID: ICP2_190502A				SeqNo: 5638266		Prep Date: 4/30/2019		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	94.25	3.7	7.396	58.14	488	75-125	95.3	1.11	20	SO

The following samples were analyzed in this batch:

19041738-01A	19041738-02A	19041738-03A
19041738-04A		

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

Client: HRL Compliance Solutions, Inc
Work Order: 19041738
Project: RMV 38-17 Spill

QC BATCH REPORT

Batch ID: **135381** Instrument ID **ICPMS3** Method: **SW6020A**

DUP		Sample ID: 19041740-04A DUP				Units: mg/L		Analysis Date: 5/1/2019 01:52 PM		
Client ID:		Run ID: ICPMS3_190501A			SeqNo: 5634701		Prep Date: 5/1/2019		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	41.7	5.0	0	0	0	0-0	51.26	20.6		
Magnesium	4.67	2.0	0	0	0	0-0	5.448	15.4		
Sodium	24.92	2.0	0	0	0	0-0	30.14	19		

The following samples were analyzed in this batch:

19041738-01A	19041738-02A	19041738-03A
19041738-04A		

Batch ID: **135381** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP		Sample ID: 19041740-04A DUP				Units: none		Analysis Date: 5/1/2019		
Client ID:		Run ID: SAR_190501A			SeqNo: 5634251		Prep Date: 5/1/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.9762	0.010	0	0	0		1.069	9.12	50	

The following samples were analyzed in this batch:

19041738-01A	19041738-02A	19041738-03A
19041738-04A		

Client: HRL Compliance Solutions, Inc
 Work Order: 19041738
 Project: RMV 38-17 Spill

QC BATCH REPORT

Batch ID: 135220 Instrument ID SVMS5 Method: SW846 8270D

MBLK		Sample ID: SBLKS1-135220-135220				Units: µg/Kg		Analysis Date: 4/30/2019 10:47 AM		
Client ID:		Run ID: SVMS5_190430A		SeqNo: 5632479		Prep Date: 4/29/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	U	6.7								
Anthracene	U	6.7								
Benzo(a)anthracene	U	6.7								
Benzo(a)pyrene	U	6.7								
Benzo(b)fluoranthene	U	6.7								
Benzo(k)fluoranthene	U	6.7								
Chrysene	U	6.7								
Dibenzo(a,h)anthracene	U	6.7								
Fluoranthene	U	6.7								
Fluorene	U	6.7								
Indeno(1,2,3-cd)pyrene	U	6.7								
Naphthalene	U	6.7								
Pyrene	U	6.7								
Surr: 2-Fluorobiphenyl	2271	0	3333	0	68.1	44-107	0			
Surr: 4-Terphenyl-d14	3301	0	3333	0	99	52-123	0			
Surr: Nitrobenzene-d5	2283	0	3333	0	68.5	41-94	0			

LCS		Sample ID: SLCSS1-135220-135220				Units: µg/Kg		Analysis Date: 4/30/2019 11:10 AM		
Client ID:		Run ID: SVMS5_190430A		SeqNo: 5632480		Prep Date: 4/29/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1027	6.7	1333	0	77	55-101	0			
Anthracene	1215	6.7	1333	0	91.1	67-105	0			
Benzo(a)anthracene	1285	6.7	1333	0	96.4	68-105	0			
Benzo(a)pyrene	1153	6.7	1333	0	86.5	68-110	0			
Benzo(b)fluoranthene	1229	6.7	1333	0	92.2	65-110	0			
Benzo(k)fluoranthene	1262	6.7	1333	0	94.7	66-113	0			
Chrysene	1289	6.7	1333	0	96.7	68-108	0			
Dibenzo(a,h)anthracene	998	6.7	1333	0	74.9	62-119	0			
Fluoranthene	1221	6.7	1333	0	91.6	67-106	0			
Fluorene	1065	6.7	1333	0	79.9	59-107	0			
Indeno(1,2,3-cd)pyrene	981.3	6.7	1333	0	73.6	56-120	0			
Naphthalene	1101	6.7	1333	0	82.6	46-98	0			
Pyrene	1253	6.7	1333	0	94	60-119	0			
Surr: 2-Fluorobiphenyl	2337	0	3333	0	70.1	44-107	0			
Surr: 4-Terphenyl-d14	2983	0	3333	0	89.5	52-123	0			
Surr: Nitrobenzene-d5	2586	0	3333	0	77.6	41-94	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 19041738
 Project: RMV 38-17 Spill

QC BATCH REPORT

Batch ID: 135220 Instrument ID SVMS5 Method: SW846 8270D

MS				Sample ID: 19041738-04A MS			Units: µg/Kg		Analysis Date: 4/30/2019 01:57 PM		
Client ID: Point of Release				Run ID: SVMS5_190430A			SeqNo: 5634589		Prep Date: 4/29/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	903.9	6.5	1294	0	69.9	55-101	0				
Anthracene	1141	6.5	1294	0	88.2	67-105	0				
Benzo(a)anthracene	1201	6.5	1294	0	92.8	68-105	0				
Benzo(a)pyrene	1085	6.5	1294	0	83.9	68-110	0				
Benzo(b)fluoranthene	1117	6.5	1294	0	86.4	65-110	0				
Benzo(k)fluoranthene	1091	6.5	1294	0	84.3	66-113	0				
Chrysene	1184	6.5	1294	0	91.5	68-108	0				
Dibenzo(a,h)anthracene	1115	6.5	1294	0	86.2	62-119	0				
Fluoranthene	1040	6.5	1294	0	80.4	67-106	0				
Fluorene	934.3	6.5	1294	0	72.2	59-107	0				
Indeno(1,2,3-cd)pyrene	1126	6.5	1294	0	87	56-120	0				
Naphthalene	1014	6.5	1294	0	78.4	46-98	0				
Pyrene	1390	6.5	1294	0	107	60-119	0				
Surr: 2-Fluorobiphenyl	2248	0	3235	0	69.5	44-107	0				
Surr: 4-Terphenyl-d14	3306	0	3235	0	102	52-123	0				
Surr: Nitrobenzene-d5	2327	0	3235	0	71.9	41-94	0				

MSD				Sample ID: 19041738-04A MSD			Units: µg/Kg		Analysis Date: 4/30/2019 02:21 PM		
Client ID: Point of Release				Run ID: SVMS5_190430A			SeqNo: 5634590		Prep Date: 4/29/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	822.9	6.3	1268	0	64.9	55-101	903.9	9.37	30		
Anthracene	1012	6.3	1268	0	79.8	67-105	1141	12	30		
Benzo(a)anthracene	1061	6.3	1268	0	83.7	68-105	1201	12.4	30		
Benzo(a)pyrene	961.8	6.3	1268	0	75.9	68-110	1085	12	30		
Benzo(b)fluoranthene	966.8	6.3	1268	0	76.3	65-110	1117	14.4	30		
Benzo(k)fluoranthene	944.7	6.3	1268	0	74.5	66-113	1091	14.4	30		
Chrysene	1047	6.3	1268	0	82.6	68-108	1184	12.2	30		
Dibenzo(a,h)anthracene	993.5	6.3	1268	0	78.4	62-119	1115	11.5	30		
Fluoranthene	948.5	6.3	1268	0	74.8	67-106	1040	9.18	30		
Fluorene	831.2	6.3	1268	0	65.6	59-107	934.3	11.7	30		
Indeno(1,2,3-cd)pyrene	1014	6.3	1268	0	80	56-120	1126	10.4	30		
Naphthalene	909.1	6.3	1268	0	71.7	46-98	1014	11	30		
Pyrene	1170	6.3	1268	0	92.3	60-119	1390	17.2	30		
Surr: 2-Fluorobiphenyl	1968	0	3170	0	62.1	44-107	2248	13.3	40		
Surr: 4-Terphenyl-d14	2767	0	3170	0	87.3	52-123	3306	17.7	40		
Surr: Nitrobenzene-d5	2125	0	3170	0	67	41-94	2327	9.11	40		

The following samples were analyzed in this batch:

19041738-04A

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

Client: HRL Compliance Solutions, Inc
 Work Order: 19041738
 Project: RMV 38-17 Spill

QC BATCH REPORT

Batch ID: 135184 Instrument ID VMS11 Method: SW8260C

MBLK		Sample ID: MBLK-135184-135184				Units: µg/Kg-dry		Analysis Date: 4/27/2019 01:24 PM		
Client ID:		Run ID: VMS11_190427A		SeqNo: 5629500		Prep Date: 4/26/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	30								
Ethylbenzene	U	30								
m,p-Xylene	U	60								
o-Xylene	U	30								
Toluene	U	30								
Xylenes, Total	U	90								
Surr: 1,2-Dichloroethane-d4	934	0	1000	0	93.4	70-130	0			
Surr: 4-Bromofluorobenzene	963	0	1000	0	96.3	70-130	0			
Surr: Dibromofluoromethane	873	0	1000	0	87.3	70-130	0			
Surr: Toluene-d8	956.5	0	1000	0	95.6	70-130	0			

LCS		Sample ID: LCS-135184-135184				Units: µg/Kg-dry		Analysis Date: 4/27/2019 12:13 PM		
Client ID:		Run ID: VMS11_190427A		SeqNo: 5629499		Prep Date: 4/26/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1066	30	1000	0	107	75-125	0			
Ethylbenzene	1148	30	1000	0	115	75-125	0			
m,p-Xylene	2324	60	2000	0	116	80-125	0			
o-Xylene	1186	30	1000	0	119	75-125	0			
Toluene	1097	30	1000	0	110	70-125	0			
Xylenes, Total	3510	90	3000	0	117	75-125	0			
Surr: 1,2-Dichloroethane-d4	915.5	0	1000	0	91.6	70-130	0			
Surr: 4-Bromofluorobenzene	1036	0	1000	0	104	70-130	0			
Surr: Dibromofluoromethane	1020	0	1000	0	102	70-130	0			
Surr: Toluene-d8	1002	0	1000	0	100	70-130	0			

MS		Sample ID: 19041738-04A MS				Units: µg/Kg-dry		Analysis Date: 4/27/2019 09:50 PM		
Client ID: Point of Release		Run ID: VMS11_190427A		SeqNo: 5629502		Prep Date: 4/26/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	933.9	30	1002	0	93.2	75-125	0			
Ethylbenzene	1016	30	1002	0	101	75-125	0			
m,p-Xylene	2034	60	2004	0	102	80-125	0			
o-Xylene	1032	30	1002	7.273	102	75-125	0			
Toluene	946.5	30	1002	0	94.4	70-125	0			
Xylenes, Total	3066	90	3006	0	102	75-125	0			
Surr: 1,2-Dichloroethane-d4	933.4	0	1002	0	93.2	70-130	0			
Surr: 4-Bromofluorobenzene	1010	0	1002	0	101	70-130	0			
Surr: Dibromofluoromethane	962.5	0	1002	0	96	70-130	0			
Surr: Toluene-d8	961	0	1002	0	95.9	70-130	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 19041738
Project: RMV 38-17 Spill

QC BATCH REPORT

Batch ID: **135184** Instrument ID **VMS11** Method: **SW8260C**

MSD		Sample ID: 19041738-04A MSD				Units: µg/Kg-dry		Analysis Date: 4/27/2019 10:12 PM		
Client ID: Point of Release		Run ID: VMS11_190427A		SeqNo: 5629503		Prep Date: 4/26/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1056	31	1034	0	102	75-125	933.9	12.3	30	
Ethylbenzene	1128	31	1034	0	109	75-125	1016	10.5	30	
m,p-Xylene	2211	62	2068	0	107	80-125	2034	8.31	30	
o-Xylene	1139	31	1034	7.273	109	75-125	1032	9.88	30	
Toluene	1053	31	1034	0	102	70-125	946.5	10.7	30	
Xylenes, Total	3350	93	3102	0	108	75-125	3066	8.84	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	972.9	0	1034	0	94.1	70-130	933.4	4.15	30	
<i>Surr: 4-Bromofluorobenzene</i>	1046	0	1034	0	101	70-130	1010	3.53	30	
<i>Surr: Dibromofluoromethane</i>	1013	0	1034	0	98	70-130	962.5	5.14	30	
<i>Surr: Toluene-d8</i>	993.6	0	1034	0	96.1	70-130	961	3.34	30	

The following samples were analyzed in this batch:

19041738-04A

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

Client: HRL Compliance Solutions, Inc
Work Order: 19041738
Project: RMV 38-17 Spill

QC BATCH REPORT

Batch ID: **135314** Instrument ID **WETCHEM** Method: **SW9045D**

LCS	Sample ID: LCS-135314-135314		Units: s.u.		Analysis Date: 4/30/2019 02:02 PM					
Client ID:	Run ID: WETCHEM_190430I		SeqNo: 5632707		Prep Date: 4/30/2019 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 3.96 0.10 4 0 99 90-110 0

DUP	Sample ID: 19041733-01A DUP		Units: s.u.		Analysis Date: 4/30/2019 02:02 PM					
Client ID:	Run ID: WETCHEM_190430I		SeqNo: 5632716		Prep Date: 4/30/2019 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 5.98 0.10 0 0 0 0-0 5.91 1.18 20 H

Temperature 21.2 0.10 0 0 0 21.4 0.939 H

DUP	Sample ID: 19041740-01A DUP		Units: s.u.		Analysis Date: 4/30/2019 02:02 PM					
Client ID:	Run ID: WETCHEM_190430I		SeqNo: 5632722		Prep Date: 4/30/2019 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 8.79 0.10 0 0 0 0-0 8.74 0.57 20

Temperature 21.4 0.10 0 0 0 21.4 0

The following samples were analyzed in this batch:

19041738-01A	19041738-02A	19041738-03A
19041738-04A		

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

Client: HRL Compliance Solutions, Inc
Work Order: 19041738
Project: RMV 38-17 Spill

QC BATCH REPORT

Batch ID: **135381** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP	Sample ID: 19041740-04A DUP				Units: mmhos/cm @25°		Analysis Date: 5/2/2019 04:45 PM			
Client ID:	Run ID: WETCHEM_1905020			SeqNo: 5638120		Prep Date: 5/1/2019		DF: 20		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.01899	0.0050	0	0	0		0.0218	13.8	50	

The following samples were analyzed in this batch:

19041738-01A	19041738-02A	19041738-03A
19041738-04A		

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

Client: HRL Compliance Solutions, Inc
 Work Order: 19041738
 Project: RMV 38-17 Spill

QC BATCH REPORT

Batch ID: 135482 Instrument ID WETCHEM Method: SW7196A

MBLK	Sample ID: MBLK-135482-135482		Units: mg/Kg		Analysis Date: 5/2/2019 06:11 PM					
Client ID:	Run ID: WETCHEM_190502U		SeqNo: 5638434		Prep Date: 5/2/2019 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent U 1.0

LCS	Sample ID: LCS-135482-135482		Units: mg/Kg		Analysis Date: 5/2/2019 06:11 PM					
Client ID:	Run ID: WETCHEM_190502U		SeqNo: 5638435		Prep Date: 5/2/2019 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.03 1.0 5 0 80.6 80-120 0

MS	Sample ID: 1904724-01B MS		Units: mg/Kg		Analysis Date: 5/2/2019 06:11 PM					
Client ID:	Run ID: WETCHEM_190502U		SeqNo: 5638438		Prep Date: 5/2/2019 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 3.02 1.0 5 0.3535 53.3 75-125 0 S

MS	Sample ID: 1904724-01B MSI		Units: mg/Kg		Analysis Date: 5/2/2019 06:11 PM					
Client ID:	Run ID: WETCHEM_190502U		SeqNo: 5638440		Prep Date: 5/2/2019 DF: 100					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2018 99 2103 0.3535 95.9 75-125 0

MSD	Sample ID: 1904724-01B MSD		Units: mg/Kg		Analysis Date: 5/2/2019 06:11 PM					
Client ID:	Run ID: WETCHEM_190502U		SeqNo: 5638439		Prep Date: 5/2/2019 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2.68 0.97 4.854 0.3535 47.9 75-125 3.02 11.9 20 S

The following samples were analyzed in this batch:

19041738-04A

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

Client: HRL Compliance Solutions, Inc
 Work Order: 19041738
 Project: RMV 38-17 Spill

QC BATCH REPORT

Batch ID: **R259623** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R259623				Units: % of sample			Analysis Date: 5/1/2019 01:26 PM		
Client ID:		Run ID: MOIST_190501A				SeqNo: 5636046		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	U	0.10									

LCS		Sample ID: LCS-R259623				Units: % of sample			Analysis Date: 5/1/2019 01:26 PM		
Client ID:		Run ID: MOIST_190501A				SeqNo: 5636045		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	100	0.10	100	0	100	98-102	0				

DUP		Sample ID: 19041738-01A DUP				Units: % of sample			Analysis Date: 5/1/2019 01:26 PM		
Client ID: BKGD 1		Run ID: MOIST_190501A				SeqNo: 5636028		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	8.65	0.10	0	0	0	0-0	8.89	2.74	10		

DUP		Sample ID: 19041740-02A DUP				Units: % of sample			Analysis Date: 5/1/2019 01:26 PM		
Client ID:		Run ID: MOIST_190501A				SeqNo: 5636034		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	5.95	0.10	0	0	0	0-0	6.06	1.83	10		

The following samples were analyzed in this batch:

19041738-01A	19041738-02A	19041738-03A
19041738-04A		

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



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
 TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 2028

WORKORDER #	19041738
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PROJECT NAME		Terra Energy -		SAMPLER		Matt Smith		DATE		4/24/2019		PAGE		1 of 2	
PROJECT No.		RMV 38-17 Spill		SITE ID				TURNAROUND		STD 5 Day		DISPOSAL		By Lab or Return to Client	
COMPANY NAME		HRL COMPLIANCE SOLUTIONS Inc.		EDD FORMAT				DRO							
SEND REPORT TO		KRIS ROWE & MIKE GARDNER		PURCHASE ORDER				GRO							
ADDRESS		2385 F 1/2		BILL TO COMPANY		Terra Energy		BTEX							
CITY / STATE / ZIP		GRAND JUNCTION CO 81505		INVOICE ATTN TO		Mike Gardner		910-1 Metals							
PHONE		970-243-3271		ADDRESS		1058 CR 2015		Semi Vols - PAH							
FAX		970-243-3280		CITY / STATE / ZIP		Parachute CO, 81635		SAR / EC / pH							
E-MAIL		KROWE@HRLCOMP.COM		PHONE		970-263-2780		ARSENIC							
E-MAIL		mgardner@terraep.com		FAX											
E-MAIL		mgardner@terraep.com													
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	DRO	GRO	BTEX	910-1 Metals	Semi Vols - PAH	SAR / EC / pH	ARSENIC	
	BKGD 1	S	4/24/2019	12:30	1								x	x	
	BKGD 2	S	4/24/2019	12:45	1								x	x	
	BKGD 3	S	4/24/2019	13:00	1								x	x	
	Point of Release	S	4/24/2019	13:15	2			x	x	x	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)
	<input type="checkbox"/> LEVEL II (Standard QC)
	<input type="checkbox"/> LEVEL III (Std QC + forms)
	<input type="checkbox"/> 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	

3.2°
502

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>[Signature]</i>	Matt Smith	4/25/19	1200
RECEIVED BY	<i>[Signature]</i>	WM	4-25-19	1200
RELINQUISHED BY	<i>[Signature]</i>	WM	4-25-19	1630
RECEIVED BY	<i>[Signature]</i>	Kerry Wierenga	4/26/19	1000
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **26-Apr-19 10:00**

Work Order: **19041738**

Received by: **KRW**

Checklist completed by Keith Wierenga 26-Apr-19
eSignature Date

Reviewed by: Alex J. Csaszar 26-Apr-19
eSignature 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):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

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: