



21-Apr-2014

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

Re: **Ursa Burckle Cuttings Staging Area 4.10.14**

Work Order: **1404614**

Dear Kris,

ALS Environmental received 2 samples on 11-Apr-2014 10:00 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 31.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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Environmental The ALS logo, a small blue triangle with a yellow flame.

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Client: HRL Compliance Solutions, Inc
Project: Ursa Burckle Cuttings Staging Area 4.10.14
Work Order: 1404614

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>
1404614-01	Mclin C Stockpiled Cuttings - North Half	Soil		4/10/2014 12:30	4/11/2014 10:00	<input type="checkbox"/>
1404614-02	Mclin C Stockpile Cuttings - South Half	Soil		4/10/2014 12:35	4/11/2014 10:00	<input type="checkbox"/>

ALS Group USA, Corp

Date: 21-Apr-14

Client: HRL Compliance Solutions, Inc
Project: Ursa Burckle Cuttings Staging Area 4.10.14
Work Order: 1404614

Case Narrative

Batch 57755 MS/MSD data for Hexavalent Chromium is not related to this project's samples. No data requires qualification.

<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

<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
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: 21-Apr-14

Client: HRL Compliance Solutions, Inc
Project: Ursa Burckle Cuttings Staging Area 4.10.14
Sample ID: Mclin C Stockpiled Cuttings - North Half
Collection Date: 4/10/2014 12:30 PM

Work Order: 1404614
Lab ID: 1404614-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3541 / 4/15/14	Analyst: IT
DRO (C10-C28)	190		6.4	mg/Kg-dry	1	4/16/2014 05:30 PM
Surr: 4-Terphenyl-d14	102		39-115	%REC	1	4/16/2014 05:30 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015		Prep: SW5035 / 4/15/14	Analyst: IT
GRO (C6-C10)	ND		7.9	mg/Kg-dry	1	4/15/2014 02:51 PM
Surr: Toluene-d8	107		50-150	%REC	1	4/15/2014 02:51 PM
MERCURY BY CVAA						
			SW7471		Prep: SW7471 / 4/16/14	Analyst: LR
Mercury	0.033		0.014	mg/Kg-dry	1	4/16/2014 10:03 PM
METALS BY ICP-MS						
			SW6020A		Prep: SW3050B / 4/14/14	Analyst: ML
Arsenic	3.2		2.8	mg/Kg-dry	5	4/16/2014 04:49 AM
Barium	270		2.8	mg/Kg-dry	5	4/16/2014 04:49 AM
Cadmium	ND		1.1	mg/Kg-dry	5	4/16/2014 04:49 AM
Chromium	9.1		2.8	mg/Kg-dry	5	4/16/2014 04:49 AM
Copper	14		2.8	mg/Kg-dry	5	4/16/2014 04:49 AM
Lead	11		2.8	mg/Kg-dry	5	4/16/2014 04:49 AM
Nickel	11		2.8	mg/Kg-dry	5	4/16/2014 04:49 AM
Selenium	ND		3.1	mg/Kg-dry	5	4/20/2014 09:19 PM
Silver	ND		2.8	mg/Kg-dry	5	4/16/2014 04:49 AM
Zinc	47		5.7	mg/Kg-dry	5	4/16/2014 04:49 AM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 4/15/14	Analyst: RH
Calcium	48		10	mg/L	20	4/16/2014 10:11 PM
Magnesium	12		4.0	mg/L	20	4/16/2014 10:11 PM
Sodium	280		4.0	mg/L	20	4/16/2014 10:11 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 4/15/14	Analyst: RH
Sodium Adsorption Ratio	9.2		0.010	none	1	4/17/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 4/15/14	Analyst: RM
Acenaphthene	ND		10	µg/Kg-dry	1	4/17/2014 01:51 AM
Acenaphthylene	ND		10	µg/Kg-dry	1	4/17/2014 01:51 AM
Anthracene	ND		10	µg/Kg-dry	1	4/17/2014 01:51 AM
Benzo(a)anthracene	ND		10	µg/Kg-dry	1	4/17/2014 01:51 AM
Benzo(a)pyrene	ND		10	µg/Kg-dry	1	4/17/2014 01:51 AM
Benzo(b)fluoranthene	ND		10	µg/Kg-dry	1	4/17/2014 01:51 AM
Benzo(g,h,i)perylene	ND		10	µg/Kg-dry	1	4/17/2014 01:51 AM
Benzo(k)fluoranthene	ND		10	µg/Kg-dry	1	4/17/2014 01:51 AM
Chrysene	ND		10	µg/Kg-dry	1	4/17/2014 01:51 AM

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

ALS Group USA, Corp

Date: 21-Apr-14

Client: HRL Compliance Solutions, Inc
Project: Ursa Burckle Cuttings Staging Area 4.10.14
Sample ID: Mclin C Stockpiled Cuttings - North Half
Collection Date: 4/10/2014 12:30 PM

Work Order: 1404614
Lab ID: 1404614-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		10	µg/Kg-dry	1	4/17/2014 01:51 AM
Fluoranthene	ND		10	µg/Kg-dry	1	4/17/2014 01:51 AM
Fluorene	ND		10	µg/Kg-dry	1	4/17/2014 01:51 AM
Indeno(1,2,3-cd)pyrene	ND		10	µg/Kg-dry	1	4/17/2014 01:51 AM
Naphthalene	37		10	µg/Kg-dry	1	4/17/2014 01:51 AM
Pyrene	ND		10	µg/Kg-dry	1	4/17/2014 01:51 AM
Surr: 2-Fluorobiphenyl	74.9		12-100	%REC	1	4/17/2014 01:51 AM
Surr: 4-Terphenyl-d14	105		25-137	%REC	1	4/17/2014 01:51 AM
Surr: Nitrobenzene-d5	67.6		37-107	%REC	1	4/17/2014 01:51 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 4/15/14		Analyst: RS
Benzene	ND		94	µg/Kg-dry	1	4/17/2014 07:21 AM
Ethylbenzene	ND		94	µg/Kg-dry	1	4/17/2014 07:21 AM
m,p-Xylene	ND		190	µg/Kg-dry	1	4/17/2014 07:21 AM
o-Xylene	ND		94	µg/Kg-dry	1	4/17/2014 07:21 AM
Toluene	ND		94	µg/Kg-dry	1	4/17/2014 07:21 AM
Xylenes, Total	ND		280	µg/Kg-dry	1	4/17/2014 07:21 AM
Surr: 1,2-Dichloroethane-d4	94.9		70-130	%REC	1	4/17/2014 07:21 AM
Surr: 4-Bromofluorobenzene	95.8		70-130	%REC	1	4/17/2014 07:21 AM
Surr: Dibromofluoromethane	96.0		70-130	%REC	1	4/17/2014 07:21 AM
Surr: Toluene-d8	97.2		70-130	%REC	1	4/17/2014 07:21 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 4/15/14		Analyst: JB
Electrical Conductivity @ Saturation	1.8		0.050	mmhos/cm @25	10	4/15/2014 02:30 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	8.8		0.79	mg/Kg-dry	1	4/18/2014 03:29 PM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 4/17/14		Analyst: AG
Chromium, Hexavalent	ND		0.77	mg/Kg-dry	1	4/18/2014 11:00 AM
MOISTURE			A2540 G			Analyst: AT
Moisture	36		0.050	% of sample	1	4/11/2014 05:11 PM
PH			SW9045D	Prep: EXTRACT / 4/14/14		Analyst: AT
pH	8.7			s.u.	1	4/14/2014 05:00 PM

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

ALS Group USA, Corp

Date: 21-Apr-14

Client: HRL Compliance Solutions, Inc
Project: Ursa Burckle Cuttings Staging Area 4.10.14
Sample ID: Mclin C Stockpile Cuttings - South Half
Collection Date: 4/10/2014 12:35 PM

Work Order: 1404614
Lab ID: 1404614-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3541 / 4/16/14	Analyst: IT
DRO (C10-C28)	170		13	mg/Kg-dry	1	4/17/2014 01:26 AM
<i>Surr: 4-Terphenyl-d14</i>	<i>90.4</i>		<i>39-115</i>	<i>%REC</i>	<i>1</i>	4/17/2014 01:26 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015		Prep: SW5035 / 4/15/14	Analyst: IT
GRO (C6-C10)	ND		7.8	mg/Kg-dry	1	4/15/2014 03:17 PM
<i>Surr: Toluene-d8</i>	<i>109</i>		<i>50-150</i>	<i>%REC</i>	<i>1</i>	4/15/2014 03:17 PM
MERCURY BY CVAA						
			SW7471		Prep: SW7471 / 4/16/14	Analyst: LR
Mercury	0.024		0.018	mg/Kg-dry	1	4/16/2014 10:05 PM
METALS BY ICP-MS						
			SW6020A		Prep: SW3050B / 4/14/14	Analyst: ML
Arsenic	3.5		2.4	mg/Kg-dry	5	4/16/2014 04:55 AM
Barium	270		2.4	mg/Kg-dry	5	4/16/2014 04:55 AM
Cadmium	ND		0.97	mg/Kg-dry	5	4/16/2014 04:55 AM
Chromium	8.7		2.4	mg/Kg-dry	5	4/16/2014 04:55 AM
Copper	13		2.4	mg/Kg-dry	5	4/16/2014 04:55 AM
Lead	10		2.4	mg/Kg-dry	5	4/16/2014 04:55 AM
Nickel	10		2.4	mg/Kg-dry	5	4/16/2014 04:55 AM
Selenium	ND		3.1	mg/Kg-dry	5	4/20/2014 09:45 PM
Silver	ND		2.4	mg/Kg-dry	5	4/16/2014 04:55 AM
Zinc	50		4.9	mg/Kg-dry	5	4/16/2014 04:55 AM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 4/15/14	Analyst: RH
Calcium	200		10	mg/L	20	4/16/2014 10:17 PM
Magnesium	ND		4.0	mg/L	20	4/16/2014 10:17 PM
Sodium	440		4.0	mg/L	20	4/16/2014 10:17 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 4/15/14	Analyst: RH
Sodium Adsorption Ratio	8.6		0.010	none	1	4/17/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 4/16/14	Analyst: HL
Acenaphthene	ND		20	µg/Kg-dry	1	4/17/2014 05:04 AM
Acenaphthylene	ND		20	µg/Kg-dry	1	4/17/2014 05:04 AM
Anthracene	ND		20	µg/Kg-dry	1	4/17/2014 05:04 AM
Benzo(a)anthracene	ND		20	µg/Kg-dry	1	4/17/2014 05:04 AM
Benzo(a)pyrene	ND		200	µg/Kg-dry	10	4/17/2014 11:46 PM
Benzo(b)fluoranthene	ND		200	µg/Kg-dry	10	4/17/2014 11:46 PM
Benzo(g,h,i)perylene	ND		200	µg/Kg-dry	10	4/17/2014 11:46 PM
Benzo(k)fluoranthene	ND		200	µg/Kg-dry	10	4/17/2014 11:46 PM
Chrysene	ND		20	µg/Kg-dry	1	4/17/2014 05:04 AM

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

ALS Group USA, Corp

Date: 21-Apr-14

Client: HRL Compliance Solutions, Inc
Project: Ursa Burckle Cuttings Staging Area 4.10.14
Sample ID: Mclin C Stockpile Cuttings - South Half
Collection Date: 4/10/2014 12:35 PM

Work Order: 1404614
Lab ID: 1404614-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		200	µg/Kg-dry	10	4/17/2014 11:46 PM
Fluoranthene	ND		20	µg/Kg-dry	1	4/17/2014 05:04 AM
Fluorene	ND		20	µg/Kg-dry	1	4/17/2014 05:04 AM
Indeno(1,2,3-cd)pyrene	ND		200	µg/Kg-dry	10	4/17/2014 11:46 PM
Naphthalene	ND		20	µg/Kg-dry	1	4/17/2014 05:04 AM
Pyrene	ND		20	µg/Kg-dry	1	4/17/2014 05:04 AM
Surr: 2-Fluorobiphenyl	82.3		12-100	%REC	1	4/17/2014 05:04 AM
Surr: 4-Terphenyl-d14	122		25-137	%REC	1	4/17/2014 05:04 AM
Surr: Nitrobenzene-d5	63.5		37-107	%REC	1	4/17/2014 05:04 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 4/15/14		Analyst: RS
Benzene	ND		93	µg/Kg-dry	1	4/17/2014 07:46 AM
Ethylbenzene	ND		93	µg/Kg-dry	1	4/17/2014 07:46 AM
m,p-Xylene	ND		190	µg/Kg-dry	1	4/17/2014 07:46 AM
o-Xylene	ND		93	µg/Kg-dry	1	4/17/2014 07:46 AM
Toluene	ND		93	µg/Kg-dry	1	4/17/2014 07:46 AM
Xylenes, Total	ND		280	µg/Kg-dry	1	4/17/2014 07:46 AM
Surr: 1,2-Dichloroethane-d4	94.6		70-130	%REC	1	4/17/2014 07:46 AM
Surr: 4-Bromofluorobenzene	97.4		70-130	%REC	1	4/17/2014 07:46 AM
Surr: Dibromofluoromethane	95.4		70-130	%REC	1	4/17/2014 07:46 AM
Surr: Toluene-d8	98.1		70-130	%REC	1	4/17/2014 07:46 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 4/15/14		Analyst: JB
Electrical Conductivity @ Saturation	3.4		0.050	mmhos/cm @25	10	4/15/2014 02:30 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	8.2		0.78	mg/Kg-dry	1	4/18/2014 03:29 PM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 4/17/14		Analyst: AG
Chromium, Hexavalent	ND		0.77	mg/Kg-dry	1	4/18/2014 11:00 AM
MOISTURE			A2540 G			Analyst: AT
Moisture	36		0.050	% of sample	1	4/11/2014 05:11 PM
PH			SW9045D	Prep: EXTRACT / 4/14/14		Analyst: AT
pH	8.7			s.u.	1	4/14/2014 05:00 PM

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

Client: HRL Compliance Solutions, Inc

QC BATCH REPORT

Work Order: 1404614

Project: Ursa Burckle Cuttings Staging Area 4.10.14

Batch ID: 57566

Instrument ID GC8

Method: SW8015C

MBLK		Sample ID: DBLKS1-57566-57566				Units: mg/Kg		Analysis Date: 4/16/2014 02:01 PM		
Client ID:		Run ID: GC8_140416A				SeqNo: 2716623		Prep Date: 4/15/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
Surr: 4-Terphenyl-d14	1.328	0	1.667	0	79.7	39-115	0			

LCS		Sample ID: DLCSS1-57566-57566				Units: mg/Kg		Analysis Date: 4/16/2014 02:31 PM		
Client ID:		Run ID: GC8_140416A				SeqNo: 2716624		Prep Date: 4/15/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	167.7	4.2	166.7	0	101	49-124	0			
Surr: 4-Terphenyl-d14	1.508	0	1.667	0	90.5	39-115	0			

MS		Sample ID: 1404603-04C MS				Units: mg/Kg		Analysis Date: 4/16/2014 03:01 PM		
Client ID:		Run ID: GC8_140416A				SeqNo: 2716625		Prep Date: 4/15/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	317.8	7.9	317	0	100	60-130	0			
Surr: 4-Terphenyl-d14	2.748	0	3.17	0	86.7	39-115	0			

MSD		Sample ID: 1404603-04C MSD				Units: mg/Kg		Analysis Date: 4/16/2014 03:31 PM		
Client ID:		Run ID: GC8_140416A				SeqNo: 2716626		Prep Date: 4/15/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	324.8	8.1	324.2	0	100	60-130	317.8	2.18	30	
Surr: 4-Terphenyl-d14	2.787	0	3.242	0	86	39-115	2.748	1.4	30	

The following samples were analyzed in this batch: 1404614-01A

Client: HRL Compliance Solutions, Inc
Work Order: 1404614
Project: Ursa Burckle Cuttings Staging Area 4.10.14

QC BATCH REPORT

Batch ID: **57604** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-57604-57604				Units: mg/Kg		Analysis Date: 4/17/2014 03:55 AM		
Client ID:		Run ID: GC8_140416A				SeqNo: 2717160		Prep Date: 4/16/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
<i>Surr: 4-Terphenyl-d14</i>	1.6	0	1.667	0	96	39-115	0			

LCS		Sample ID: DLCSS1-57604-57604				Units: mg/Kg		Analysis Date: 4/17/2014 04:25 AM		
Client ID:		Run ID: GC8_140416A				SeqNo: 2717161		Prep Date: 4/16/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	168	4.2	166.7	0	101	49-124	0			
<i>Surr: 4-Terphenyl-d14</i>	1.536	0	1.667	0	92.2	39-115	0			

MS		Sample ID: 1404617-01A MS				Units: mg/Kg		Analysis Date: 4/17/2014 04:55 AM		
Client ID:		Run ID: GC8_140416A				SeqNo: 2717162		Prep Date: 4/16/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	338.5	8.1	324.1	11.55	101	49-130	0			
<i>Surr: 4-Terphenyl-d14</i>	3.244	0	3.241	0	100	39-115	0			

MSD		Sample ID: 1404617-01A MSD				Units: mg/Kg		Analysis Date: 4/17/2014 05:25 AM		
Client ID:		Run ID: GC8_140416A				SeqNo: 2717163		Prep Date: 4/16/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	318.8	8.3	330.4	11.55	93	49-130	338.5	5.98	30	
<i>Surr: 4-Terphenyl-d14</i>	3.071	0	3.304	0	92.9	39-115	3.244	5.48	30	

The following samples were analyzed in this batch:

1404614-02A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404614
Project: Ursa Burckle Cuttings Staging Area 4.10.14

QC BATCH REPORT

Batch ID: **57571** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-57571-57571				Units: µg/Kg		Analysis Date: 4/15/2014 02:00 PM		
Client ID:		Run ID: GC9_140415A				SeqNo: 2714623		Prep Date: 4/15/2014		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>	4790	0	5000	0	95.8	50-150	0			

LCS		Sample ID: LCS-57571-57571				Units: µg/Kg		Analysis Date: 4/15/2014 12:43 PM		
Client ID:		Run ID: GC9_140415A				SeqNo: 2714622		Prep Date: 4/15/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	483300	2,500	500000	0	96.7	70-130	0			
<i>Surr: Toluene-d8</i>	4464	0	5000	0	89.3	50-150	0			

MS		Sample ID: 1404731-01A MS				Units: µg/Kg		Analysis Date: 4/15/2014 11:11 PM		
Client ID:		Run ID: GC9_140415A				SeqNo: 2714642		Prep Date: 4/15/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	713300	2,500	500000	179100	107	70-130	0			
<i>Surr: Toluene-d8</i>	5239	0	5000	0	105	50-150	0			

MSD		Sample ID: 1404731-01A MSD				Units: µg/Kg		Analysis Date: 4/15/2014 11:37 PM		
Client ID:		Run ID: GC9_140415A				SeqNo: 2714643		Prep Date: 4/15/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	707300	2,500	500000	179100	106	70-130	713300	0.835	30	
<i>Surr: Toluene-d8</i>	4853	0	5000	0	97.1	50-150	5239	7.65	30	

The following samples were analyzed in this batch:

1404614-01A	1404614-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1404614
Project: Ursa Burckle Cuttings Staging Area 4.10.14

QC BATCH REPORT

Batch ID: **57635** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-57635-57635				Units: mg/Kg		Analysis Date: 4/16/2014 08:58 PM		
Client ID:		Run ID: HG1_140416A				SeqNo: 2717195		Prep Date: 4/16/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

LCS		Sample ID: LCS-57635-57635					Units: mg/Kg		Analysis Date: 4/16/2014 09:00 PM		
Client ID:			Run ID: HG1_140416A			SeqNo: 2717196		Prep Date: 4/16/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1678 0.020 0.1665 0 101 80-120 0

MS		Sample ID: 1404478-27AMS					Units: mg/Kg		Analysis Date: 4/16/2014 09:05 PM		
Client ID:			Run ID: HG1_140416A			SeqNo: 2717198		Prep Date: 4/16/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1296 0.014 0.1201 0.002873 106 75-125 0

MSD		Sample ID: 1404478-27AMSD				Units: mg/Kg		Analysis Date: 4/16/2014 09:08 PM		
Client ID:			Run ID: HG1_140416A			SeqNo: 2717199		Prep Date: 4/16/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1269 0.014 0.1188 0.002873 104 75-125 0.1296 2.15 35

The following samples were analyzed in this batch:

1404614-01A 1404614-02A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404614
Project: Ursa Burckle Cuttings Staging Area 4.10.14

QC BATCH REPORT

Batch ID: **57495** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 1404615-05ADUP				Units: mg/L		Analysis Date: 4/17/2014 12:21 AM		
Client ID:		Run ID: ICPMS2_140416A				SeqNo: 2717451		Prep Date: 4/15/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	34.7	10	0	0	0	0-0	27.94	21.6		
Magnesium	7.066	4.0	0	0	0	0-0	5.788	19.9		
Sodium	11.49	4.0	0	0	0	0-0	12.94	11.9		

DUP		Sample ID: 1404615-05ADUP				Units: none		Analysis Date: 4/17/2014		
Client ID:		Run ID: SAR_140417A				SeqNo: 2719985		Prep Date: 4/15/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.4646	0.010	0	0	0		0.5818	22.4	50	

The following samples were analyzed in this batch: | 1404614-01B 1404614-02B |

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404614
Project: Ursa Burckle Cuttings Staging Area 4.10.14

QC BATCH REPORT

Batch ID: **57544** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-57544-57544				Units: mg/Kg		Analysis Date: 4/16/2014 01:17 AM		
Client ID:		Run ID: ICPMS1_140415A				SeqNo: 2715066		Prep Date: 4/14/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	0.03881	0.25								J
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	0.00746	0.25								J
Nickel	ND	0.25								
Selenium	0.0349	0.25								J
Silver	ND	0.25								
Zinc	ND	0.50								

LCS		Sample ID: LCS-57544-57544				Units: mg/Kg		Analysis Date: 4/16/2014 01:23 AM		
Client ID:		Run ID: ICPMS1_140415A				SeqNo: 2715067		Prep Date: 4/14/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.294	0.25	5	0	85.9	80-120	0			
Barium	5.02	0.25	5	0	100	80-120	0			
Cadmium	4.763	0.10	5	0	95.3	80-120	0			
Chromium	4.77	0.25	5	0	95.4	80-120	0			
Copper	4.83	0.25	5	0	96.6	80-120	0			
Lead	5.2	0.25	5	0	104	80-120	0			
Nickel	4.806	0.25	5	0	96.1	80-120	0			
Selenium	3.966	0.25	5	0	79.3	80-120	0			S
Silver	4.954	0.25	5	0	99.1	80-120	0			
Zinc	4.524	0.50	5	0	90.5	80-120	0			

MS		Sample ID: 1404595-01AMS				Units: mg/Kg		Analysis Date: 4/16/2014 01:52 AM		
Client ID:		Run ID: ICPMS1_140415A				SeqNo: 2715072		Prep Date: 4/14/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.268	0.39	7.74	0.4156	88.5	75-125	0			
Barium	13.23	0.39	7.74	4.385	114	75-125	0			
Cadmium	7.572	0.15	7.74	0.02854	97.5	75-125	0			
Chromium	9.474	0.39	7.74	1.423	104	75-125	0			
Copper	8.127	0.39	7.74	0.6577	96.5	75-125	0			
Lead	10.37	0.39	7.74	2.082	107	75-125	0			
Nickel	8.808	0.39	7.74	1.198	98.3	75-125	0			
Selenium	6.367	0.39	7.74	0.1817	79.9	75-125	0			
Silver	7.618	0.39	7.74	0.006252	98.3	75-125	0			
Zinc	13.23	0.77	7.74	5.39	101	75-125	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404614
Project: Ursa Burckle Cuttings Staging Area 4.10.14

QC BATCH REPORT

Batch ID: **57544** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1404595-01AMSD				Units: mg/Kg		Analysis Date: 4/16/2014 01:58 AM		
Client ID:		Run ID: ICPMS1_140415A				SeqNo: 2715073		Prep Date: 4/14/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.335	0.39	7.812	0.4156	88.6	75-125	7.268	0.922	25	
Barium	12.94	0.39	7.812	4.385	109	75-125	13.23	2.22	25	
Cadmium	7.595	0.16	7.812	0.02854	96.8	75-125	7.572	0.297	25	
Chromium	9.531	0.39	7.812	1.423	104	75-125	9.474	0.606	25	
Copper	8.227	0.39	7.812	0.6577	96.9	75-125	8.127	1.22	25	
Lead	10.74	0.39	7.812	2.082	111	75-125	10.37	3.51	25	
Nickel	8.914	0.39	7.812	1.198	98.8	75-125	8.808	1.2	25	
Selenium	6.501	0.39	7.812	0.1817	80.9	75-125	6.367	2.08	25	
Silver	7.734	0.39	7.812	0.006252	98.9	75-125	7.618	1.51	25	
Zinc	13.59	0.78	7.812	5.39	105	75-125	13.23	2.73	25	

The following samples were analyzed in this batch: 1404614-01A 1404614-02A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404614
Project: Ursa Burckle Cuttings Staging Area 4.10.14

QC BATCH REPORT

Batch ID: **57775** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-57775-57775				Units: mg/Kg		Analysis Date: 4/20/2014 08:24 PM		
Client ID:		Run ID: ICPMS1_140420A				SeqNo: 2722091		Prep Date: 4/18/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Selenium ND 0.25

LCS		Sample ID: LCS-57775-57775				Units: mg/Kg		Analysis Date: 4/20/2014 08:30 PM		
Client ID:		Run ID: ICPMS1_140420A				SeqNo: 2722092		Prep Date: 4/18/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Selenium 4.39 0.25 5 0 87.8 80-120 0

MS		Sample ID: 1404595-01AMS				Units: mg/Kg		Analysis Date: 4/20/2014 08:42 PM		
Client ID:		Run ID: ICPMS1_140420A				SeqNo: 2722094		Prep Date: 4/18/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Selenium 6.588 0.39 7.825 0.2102 81.5 75-125 0

MSD		Sample ID: 1404595-01AMSD				Units: mg/Kg		Analysis Date: 4/20/2014 08:49 PM		
Client ID:		Run ID: ICPMS1_140420A				SeqNo: 2722095		Prep Date: 4/18/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Selenium 6.621 0.38 7.53 0.2102 85.1 75-125 6.588 0.497 25

The following samples were analyzed in this batch:

1404614-01A 1404614-02A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404614
Project: Ursa Burckle Cuttings Staging Area 4.10.14

QC BATCH REPORT

Batch ID: **57565** Instrument ID **SVMS8** Method: **SW8270**

MBLK		Sample ID: SBLKS1-57565-57565				Units: µg/Kg		Analysis Date: 4/16/2014 12:56 PM		
Client ID:		Run ID: SVMS8_140416A				SeqNo: 2718035		Prep Date: 4/15/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
<i>Surr: 2-Fluorobiphenyl</i>	1233	0	1667	0	74	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1639	0	1667	0	98.3	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1259	0	1667	0	75.5	37-107	0			

LCS		Sample ID: SLCSS1-57565-57565				Units: µg/Kg		Analysis Date: 4/16/2014 01:16 PM		
Client ID:		Run ID: SVMS8_140416A				SeqNo: 2718037		Prep Date: 4/15/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	498.7	6.7	666.7	0	74.8	45-110	0			
Acenaphthylene	528.3	6.7	666.7	0	79.2	45-105	0			
Anthracene	612.7	6.7	666.7	0	91.9	55-105	0			
Benzo(a)anthracene	629.3	6.7	666.7	0	94.4	50-110	0			
Benzo(a)pyrene	666.7	6.7	666.7	0	100	50-110	0			
Benzo(b)fluoranthene	641.3	6.7	666.7	0	96.2	45-115	0			
Benzo(g,h,i)perylene	636.7	6.7	666.7	0	95.5	40-125	0			
Benzo(k)fluoranthene	657	6.7	666.7	0	98.5	45-115	0			
Chrysene	622.3	6.7	666.7	0	93.3	55-110	0			
Dibenzo(a,h)anthracene	681.7	6.7	666.7	0	102	40-125	0			
Fluoranthene	676.7	6.7	666.7	0	101	55-115	0			
Fluorene	537.3	6.7	666.7	0	80.6	50-110	0			
Indeno(1,2,3-cd)pyrene	696	6.7	666.7	0	104	40-120	0			
Naphthalene	462.3	6.7	666.7	0	69.3	40-105	0			
Pyrene	665.3	6.7	666.7	0	99.8	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1172	0	1667	0	70.3	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1765	0	1667	0	106	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1242	0	1667	0	74.5	37-107	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404614
Project: Ursa Burckle Cuttings Staging Area 4.10.14

QC BATCH REPORT

Batch ID: **57565** Instrument ID **SVMS8** Method: **SW8270**

MS				Sample ID: 1404572-01B MS			Units: µg/Kg		Analysis Date: 4/16/2014 05:01 PM	
Client ID:				Run ID: SVMS8_140416A			SeqNo: 2718040		Prep Date: 4/15/2014	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	834.2	13	1279	0	65.2	45-110	0			
Acenaphthylene	896.2	13	1279	0	70.1	45-105	0			
Anthracene	1021	13	1279	0	79.8	55-105	0			
Benzo(a)anthracene	1031	13	1279	0	80.6	50-110	0			
Benzo(a)pyrene	1110	13	1279	0	86.8	50-110	0			
Benzo(b)fluoranthene	1061	13	1279	0	83	45-115	0			
Benzo(g,h,i)perylene	1025	13	1279	0	80.2	40-125	0			
Benzo(k)fluoranthene	1064	13	1279	0	83.2	45-115	0			
Chrysene	989.5	13	1279	0	77.4	55-110	0			
Dibenzo(a,h)anthracene	1117	13	1279	0	87.4	40-125	0			
Fluoranthene	1100	13	1279	0	86	55-115	0			
Fluorene	925	13	1279	0	72.3	50-110	0			
Indeno(1,2,3-cd)pyrene	1151	13	1279	0	90	40-120	0			
Naphthalene	800.3	13	1279	0	62.6	40-105	0			
Pyrene	1080	13	1279	0	84.5	45-125	0			
Surr: 2-Fluorobiphenyl	2007	0	3196	0	62.8	12-100	0			
Surr: 4-Terphenyl-d14	2762	0	3196	0	86.4	25-137	0			
Surr: Nitrobenzene-d5	2106	0	3196	0	65.9	37-107	0			

MSD				Sample ID: 1404572-01B MSD			Units: µg/Kg		Analysis Date: 4/16/2014 05:22 PM	
Client ID:				Run ID: SVMS8_140416A			SeqNo: 2718042		Prep Date: 4/15/2014	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	824.9	13	1291	0	63.9	45-110	834.2	1.11	30	
Acenaphthylene	882.4	13	1291	0	68.3	45-105	896.2	1.55	30	
Anthracene	1033	13	1291	0	80	55-105	1021	1.23	30	
Benzo(a)anthracene	1026	13	1291	0	79.4	50-110	1031	0.523	30	
Benzo(a)pyrene	1078	13	1291	0	83.5	50-110	1110	2.96	30	
Benzo(b)fluoranthene	1044	13	1291	0	80.8	45-115	1061	1.65	30	
Benzo(g,h,i)perylene	1028	13	1291	0	79.6	40-125	1025	0.225	30	
Benzo(k)fluoranthene	1052	13	1291	0	81.5	45-115	1064	1.09	30	
Chrysene	984.4	13	1291	0	76.2	55-110	989.5	0.521	30	
Dibenzo(a,h)anthracene	1097	13	1291	0	85	40-125	1117	1.81	30	
Fluoranthene	1134	13	1291	0	87.8	55-115	1100	3.05	30	
Fluorene	930.8	13	1291	0	72.1	50-110	925	0.63	30	
Indeno(1,2,3-cd)pyrene	1136	13	1291	0	88	40-120	1151	1.27	30	
Naphthalene	813.3	13	1291	0	63	40-105	800.3	1.61	30	
Pyrene	1087	13	1291	0	84.2	45-125	1080	0.621	30	
Surr: 2-Fluorobiphenyl	1968	0	3228	0	61	12-100	2007	1.93	40	
Surr: 4-Terphenyl-d14	2785	0	3228	0	86.3	25-137	2762	0.837	40	
Surr: Nitrobenzene-d5	1978	0	3228	0	61.3	37-107	2106	6.26	40	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404614
Project: Ursa Burckle Cuttings Staging Area 4.10.14

QC BATCH REPORT

Batch ID: **57565** Instrument ID **SVMS8** Method: **SW8270**

The following samples were analyzed in this batch:

1404614-01A

Client: HRL Compliance Solutions, Inc
Work Order: 1404614
Project: Ursa Burckle Cuttings Staging Area 4.10.14

QC BATCH REPORT

Batch ID: **57603** Instrument ID **SVMS7** Method: **SW8270**

MBLK		Sample ID: SBLKS1-57603-57603				Units: µg/Kg		Analysis Date: 4/16/2014 08:02 PM		
Client ID:		Run ID: SVMS7_140416A				SeqNo: 2718253		Prep Date: 4/16/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
<i>Surr: 2-Fluorobiphenyl</i>	1268	0	1667	0	76.1	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1802	0	1667	0	108	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1053	0	1667	0	63.2	37-107	0			

LCS		Sample ID: SLCSS1-57603-57603				Units: µg/Kg		Analysis Date: 4/16/2014 08:25 PM		
Client ID:		Run ID: SVMS7_140416A				SeqNo: 2718254		Prep Date: 4/16/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	540.7	6.7	666.7	0	81.1	45-110	0			
Acenaphthylene	538.3	6.7	666.7	0	80.7	45-105	0			
Anthracene	627.3	6.7	666.7	0	94.1	55-105	0			
Benzo(a)anthracene	635.7	6.7	666.7	0	95.3	50-110	0			
Benzo(a)pyrene	699	6.7	666.7	0	105	50-110	0			
Benzo(b)fluoranthene	709.3	6.7	666.7	0	106	45-115	0			
Benzo(g,h,i)perylene	555	6.7	666.7	0	83.2	40-125	0			
Benzo(k)fluoranthene	696	6.7	666.7	0	104	45-115	0			
Chrysene	643	6.7	666.7	0	96.4	55-110	0			
Dibenzo(a,h)anthracene	564.7	6.7	666.7	0	84.7	40-125	0			
Fluoranthene	604.7	6.7	666.7	0	90.7	55-115	0			
Fluorene	564.3	6.7	666.7	0	84.6	50-110	0			
Indeno(1,2,3-cd)pyrene	598.7	6.7	666.7	0	89.8	40-120	0			
Naphthalene	524.3	6.7	666.7	0	78.6	40-105	0			
Pyrene	640.7	6.7	666.7	0	96.1	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1353	0	1667	0	81.2	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1951	0	1667	0	117	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1221	0	1667	0	73.3	37-107	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404614
Project: Ursa Burckle Cuttings Staging Area 4.10.14

QC BATCH REPORT

Batch ID: **57603** Instrument ID **SVMS7** Method: **SW8270**

MS				Sample ID: 1404617-01A MS			Units: µg/Kg		Analysis Date: 4/16/2014 11:49 PM		
Client ID:		Run ID: SVMS7_140416A			SeqNo: 2718255		Prep Date: 4/16/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	967.6	13	1272	0	76	45-110	0				
Acenaphthylene	1034	13	1272	0	81.2	45-105	0				
Anthracene	1157	13	1272	0	90.9	55-105	0				
Benzo(a)anthracene	1204	13	1272	0	94.6	50-110	0				
Benzo(a)pyrene	1232	13	1272	0	96.8	50-110	0				
Benzo(b)fluoranthene	1276	13	1272	0	100	45-115	0				
Benzo(g,h,i)perylene	1084	13	1272	0	85.2	40-125	0				
Benzo(k)fluoranthene	1288	13	1272	0	101	45-115	0				
Chrysene	1216	13	1272	0	95.5	55-110	0				
Dibenzo(a,h)anthracene	1039	13	1272	0	81.6	40-125	0				
Fluoranthene	1022	13	1272	0	80.3	55-115	0				
Fluorene	1076	13	1272	0	84.5	50-110	0				
Indeno(1,2,3-cd)pyrene	1101	13	1272	0	86.5	40-120	0				
Naphthalene	993.7	13	1272	0	78.1	40-105	0				
Pyrene	1332	13	1272	0	105	45-125	0				
Surr: 2-Fluorobiphenyl	2623	0	3181	0	82.5	12-100	0				
Surr: 4-Terphenyl-d14	3828	0	3181	0	120	25-137	0				
Surr: Nitrobenzene-d5	2258	0	3181	0	71	37-107	0				

MSD				Sample ID: 1404617-01A MSD				Units: µg/Kg			Analysis Date: 4/17/2014 12:11 PM			
Client ID:				Run ID: SVMS7_140416A				SeqNo: 2718260			Prep Date: 4/16/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Acenaphthene	1015	13	1319	0	76.9	45-110	967.6	4.74	30					
Acenaphthylene	1055	13	1319	0	80	45-105	1034	2.08	30					
Anthracene	1190	13	1319	0	90.2	55-105	1157	2.85	30					
Benzo(a)anthracene	1237	13	1319	0	93.7	50-110	1204	2.72	30					
Benzo(a)pyrene	1338	13	1319	0	101	50-110	1232	8.31	30					
Benzo(b)fluoranthene	1331	13	1319	0	101	45-115	1276	4.17	30					
Benzo(g,h,i)perylene	1159	13	1319	0	87.8	40-125	1084	6.69	30					
Benzo(k)fluoranthene	1354	13	1319	0	103	45-115	1288	4.95	30					
Chrysene	1211	13	1319	0	91.7	55-110	1216	0.431	30					
Dibenzo(a,h)anthracene	1110	13	1319	0	84.1	40-125	1039	6.64	30					
Fluoranthene	1092	13	1319	0	82.8	55-115	1022	6.63	30					
Fluorene	1108	13	1319	0	84	50-110	1076	2.97	30					
Indeno(1,2,3-cd)pyrene	1148	13	1319	0	87	40-120	1101	4.2	30					
Naphthalene	967.7	13	1319	0	73.3	40-105	993.7	2.65	30					
Pyrene	1322	13	1319	0	100	45-125	1332	0.766	30					
Surr: 2-Fluorobiphenyl	2721	0	3298	0	82.5	12-100	2623	3.68	40					
Surr: 4-Terphenyl-d14	3909	0	3298	0	119	25-137	3828	2.1	40					
Surr: Nitrobenzene-d5	2383	0	3298	0	72.3	37-107	2258	5.41	40					

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404614
Project: Ursa Burckle Cuttings Staging Area 4.10.14

QC BATCH REPORT

Batch ID: **57603** Instrument ID **SVMS7** Method: **SW8270**

The following samples were analyzed in this batch:

1404614-02A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404614
Project: Ursa Burckle Cuttings Staging Area 4.10.14

QC BATCH REPORT

Batch ID: **57570** Instrument ID **VMS6** Method: **SW8260B**

MBLK				Sample ID: MBLK-57570-57570				Units: µg/Kg			Analysis Date: 4/15/2014 01:30 PM			
Client ID:				Run ID: VMS6_140415A				SeqNo: 2714786			Prep Date: 4/15/2014		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	1022	0	1000	0	102	70-130		0						
Surr: 4-Bromofluorobenzene	961.5	0	1000	0	96.2	70-130		0						
Surr: Dibromofluoromethane	941.5	0	1000	0	94.2	70-130		0						
Surr: Toluene-d8	976	0	1000	0	97.6	70-130		0						

LCS				Sample ID: LCS-57570-57570			Units: µg/Kg		Analysis Date: 4/15/2014 12:12 PM		
Client ID:			Run ID: VMS6_140415A			SeqNo: 2714785		Prep Date: 4/15/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1129	30	1000	0	113	75-125	0				
Ethylbenzene	1092	30	1000	0	109	75-125	0				
m,p-Xylene	2170	60	2000	0	108	80-125	0				
o-Xylene	1070	30	1000	0	107	75-125	0				
Toluene	1070	30	1000	0	107	70-125	0				
Xylenes, Total	3240	90	3000	0	108	75-125	0				
Surr: 1,2-Dichloroethane-d4	1020	0	1000	0	102	70-130	0				
Surr: 4-Bromofluorobenzene	1003	0	1000	0	100	70-130	0				
Surr: Dibromofluoromethane	1029	0	1000	0	103	70-130	0				
Surr: Toluene-d8	973	0	1000	0	97.3	70-130	0				

MS				Sample ID: 1404633-01A MS				Units: µg/Kg		Analysis Date: 4/17/2014 10:41 AM	
Client ID:			Run ID: VMS9_140416B			SeqNo: 2717758		Prep Date: 4/15/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1059	30	1000	0	106	75-125	0				
Ethylbenzene	976.5	30	1000	0	97.6	75-125	0				
m,p-Xylene	1978	60	2000	0	98.9	80-125	0				
o-Xylene	966.5	30	1000	0	96.6	75-125	0				
Toluene	1128	30	1000	0	113	70-125	0				
Xylenes, Total	2944	90	3000	0	98.2	75-125	0				
Surr: 1,2-Dichloroethane-d4	996	0	1000	0	99.6	70-130	0				
Surr: 4-Bromofluorobenzene	958	0	1000	0	95.8	70-130	0				
Surr: Dibromofluoromethane	996.5	0	1000	0	99.6	70-130	0				
Surr: Toluene-d8	1070	0	1000	0	107	70-130	0				

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404614
Project: Ursa Burckle Cuttings Staging Area 4.10.14

QC BATCH REPORT

Batch ID: **57570** Instrument ID **VMS6** Method: **SW8260B**

MSD				Sample ID: 1404633-01A MSD				Units: µg/Kg		Analysis Date: 4/17/2014 11:05 AM	
Client ID:			Run ID: VMS9_140416B			SeqNo: 2717760		Prep Date: 4/15/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1055	30	1000	0	106	75-125	1059	0.378	30		
Ethylbenzene	1002	30	1000	0	100	75-125	976.5	2.53	30		
m,p-Xylene	2026	60	2000	0	101	80-125	1978	2.4	30		
o-Xylene	999	30	1000	0	99.9	75-125	966.5	3.31	30		
Toluene	1158	30	1000	0	116	70-125	1128	2.54	30		
Xylenes, Total	3025	90	3000	0	101	75-125	2944	2.7	30		
Surr: 1,2-Dichloroethane-d4	972.5	0	1000	0	97.2	70-130	996	2.39	30		
Surr: 4-Bromofluorobenzene	975	0	1000	0	97.5	70-130	958	1.76	30		
Surr: Dibromofluoromethane	976.5	0	1000	0	97.6	70-130	996.5	2.03	30		
Surr: Toluene-d8	1092	0	1000	0	109	70-130	1070	2.04	30		

The following samples were analyzed in this batch: 1404614-01A 1404614-02A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404614
Project: Ursa Burckle Cuttings Staging Area 4.10.14

QC BATCH REPORT

Batch ID: **57495** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1404615-05A DUP				Units: mmhos/cm @25°C		Analysis Date: 4/15/2014 02:30 PM		
Client ID:		Run ID: WETCHEM_140415J				SeqNo: 2713881		Prep Date: 4/15/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.254	0.050	0	0	0		0.26	2.33	50	

The following samples were analyzed in this batch:

1404614-01B	1404614-02B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1404614
Project: Ursa Burckle Cuttings Staging Area 4.10.14

QC BATCH REPORT

Batch ID: **57529** Instrument ID **WETCHEM** Method: **SW9045D**

LCS				Sample ID: LCS-57529-57529				Units: s.u.		Analysis Date: 4/14/2014 05:00 PM			
Client ID:				Run ID: WETCHEM_140414H				SeqNo: 2712169		Prep Date: 4/14/2014		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
pH		3.91	0	4	0	97.8	90-110	0					

DUP				Sample ID: 1404598-01B DUP				Units: s.u.		Analysis Date: 4/14/2014 05:00 PM													
Client ID:				Run ID: WETCHEM_140414H				SeqNo: 2712172		Prep Date: 4/14/2014		DF: 1											
Analyte				Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	
pH				8.32		0		0		0		0		0-0		8.39		0.838		20			

DUP				Sample ID: 1404615-01A DUP				Units: s.u.		Analysis Date: 4/14/2014 05:00 PM			
Client ID:				Run ID: WETCHEM_140414H				SeqNo: 2712178		Prep Date: 4/14/2014		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
pH		7.81	0	0	0	0	0-0	7.76	0.642	20			

The following samples were analyzed in this batch:

1404614-01A 1404614-02A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404614
Project: Ursa Burckle Cuttings Staging Area 4.10.14

QC BATCH REPORT

Batch ID: **57755** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-57755-57755				Units: mg/Kg		Analysis Date: 4/18/2014 11:00 AM		
Client ID:		Run ID: WETCHEM_140418H				SeqNo: 2720618		Prep Date: 4/17/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.50

LCS		Sample ID: LCS-57755-57755				Units: mg/Kg		Analysis Date: 4/18/2014 11:00 AM		
Client ID:		Run ID: WETCHEM_140418H				SeqNo: 2720617		Prep Date: 4/17/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.856 0.50 2 0 92.8 80-120 0

MS		Sample ID: 1404598-01B MS				Units: mg/Kg		Analysis Date: 4/18/2014 11:00 AM		
Client ID:		Run ID: WETCHEM_140418H				SeqNo: 2720516		Prep Date: 4/17/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.2817 0.50 1.984 0.2795 0.112 75-125 0 JS

MS		Sample ID: 1404598-01B MSI				Units: mg/Kg		Analysis Date: 4/18/2014 11:00 AM		
Client ID:		Run ID: WETCHEM_140418H				SeqNo: 2720518		Prep Date: 4/17/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 527 50 664 0.2795 79.3 75-125 0

MSD		Sample ID: 1404598-01B MSD				Units: mg/Kg		Analysis Date: 4/18/2014 11:00 AM		
Client ID:		Run ID: WETCHEM_140418H				SeqNo: 2720517		Prep Date: 4/17/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.4343 0.50 1.992 0.2795 7.77 75-125 0.2817 0 20 JS

The following samples were analyzed in this batch:

1404614-01A 1404614-02A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1404614
Project: Ursa Burckle Cuttings Staging Area 4.10.14

QC BATCH REPORT

Batch ID: **R138844** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R138844				Units: % of sample		Analysis Date: 4/11/2014 05:11 PM		
Client ID:		Run ID: MOIST_140411D				SeqNo: 2711065		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-R138844				Units: % of sample		Analysis Date: 4/11/2014 05:11 PM		
Client ID:		Run ID: MOIST_140411D				SeqNo: 2711064		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: 1404616-02A DUP				Units: % of sample		Analysis Date: 4/11/2014 05:11 PM		
Client ID:		Run ID: MOIST_140411D				SeqNo: 2711056		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 13.92 0.050 0 0 0 0-0 13.54 2.77 20

DUP		Sample ID: 1404616-04A DUP				Units: % of sample		Analysis Date: 4/11/2014 05:11 PM		
Client ID:		Run ID: MOIST_140411D				SeqNo: 2711059		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 9.34 0.050 0 0 0 0-0 9.13 2.27 20

The following samples were analyzed in this batch:

1404614-01A 1404614-02A

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 20278

WORKORDER #

1404614

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME

Ursa-Burckle Cuttings Staging Area

SAMPLER

Kris Rowe

DATE

4/10/14

TURNAROUND

STD

SITE ID

Burckle Cuttings Staging Area

PROJECT No.

EDD FORMAT

PURCHASE ORDER

COMPANY NAME

HRL COMPLIANCE SOLUTIONS Inc.

BILL TO COMPANY

HRL

SEND REPORT TO

Kris Rowe

INVOICE/ATTN TO

ADDRESS

2385 F 1/2 RD

ADDRESS

CITY / STATE / ZIP

GRAND JUNCTION CO 81505

CITY / STATE / ZIP

PHONE

970-243-3271

PHONE

FAX

970-243-3280

FAX

E-MAIL

krowe@hrlcomp.com

E-MAIL

Lab ID

Field ID

Matrix

Sample Date

Sample Time

Bottles

Pres.

QC

1

Melin C Stockpile Cuttings - North HRIE

5

4/10/14

1230

2

XX

2

Melin C Stockpile Cuttings - South HRIE

5

4/10/14

1235

2

XX

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

For metals or anions, please detail analytes below.

Comments:

5.0°
[Signature]

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 9-5036

SIGNATURE

PRINTED NAME

DATE

TIME

RELINQUISHED BY

[Signature]

Kris Rowe

4/10/14

1430

RECEIVED BY

[Signature]

N.M.

4-10-14

1430

RELINQUISHED BY

[Signature]

N.M.

4-10-14

1430

RECEIVED BY

[Signature]

Diane F. Shaw

4/11/14

1000

RELINQUISHED BY

[Signature]

RECEIVED BY

[Signature]

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 11-Apr-14 10:00

Work Order: 1404614

Received by: DS

Checklist completed by Diane Shaw 11-Apr-14
eSignature Date

Reviewed by: Ann Preston 14-Apr-14
eSignature Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>5.0 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>4/11/2014 2:39:43 PM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

From: (816) 399-8070
Sample Receiving
ALS Laboratory Group
3352 128th Avenue
Holland, MI 48424

Origin ID: GRRRA



Ship Date: 10APR14
Actual Wt: 79.9 LB
CAD: 2264044RNET3460

Dim: 14 X 20 X 15 IN

Delivery Address Bar Code



Ref # 041014-2
Invoice #
PO #
Dept #

SHIP TO: (816) 399-8070
sample receiving
ALS Laboratory Group
3352 128TH AVE

BILL SENDER

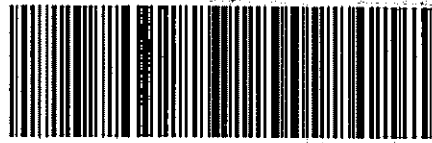
HOLLAND, MI 48424

FRI - 11 APR AA
STANDARD OVERNIGHT

TRK# 7985 1806 9200
62W1

68 GRRRA

49424
MI-UN
GRR



5220 U7806P220

/templates/components/dotcom_label_contents/FoldInst/en/Folding_instructions.html loading...
/templates/components/dotcom_label_contents/WarningsOriginalLabel/en/Folding_warning.html loading...
/templates/components/dotcom_label_contents/TnCDom/us/en/TC_dom.html loading...

ALS Parachute Custody Seal
Name: _____
Date: 4/10/14
Time: 1:00 PM

Handwritten signature: L. J. B.