

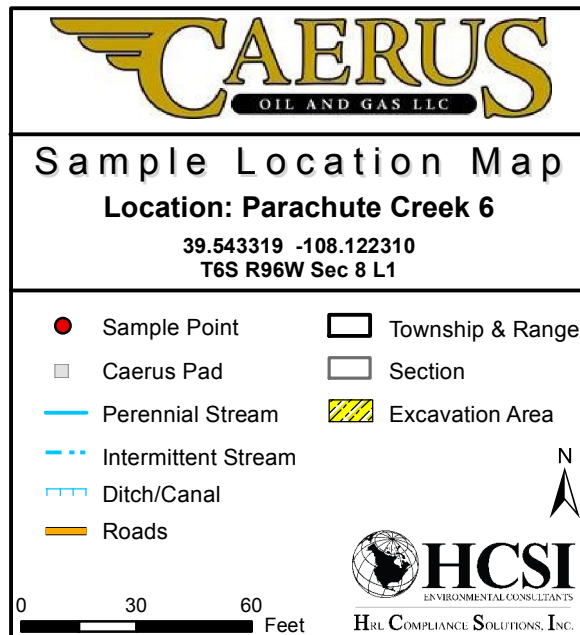
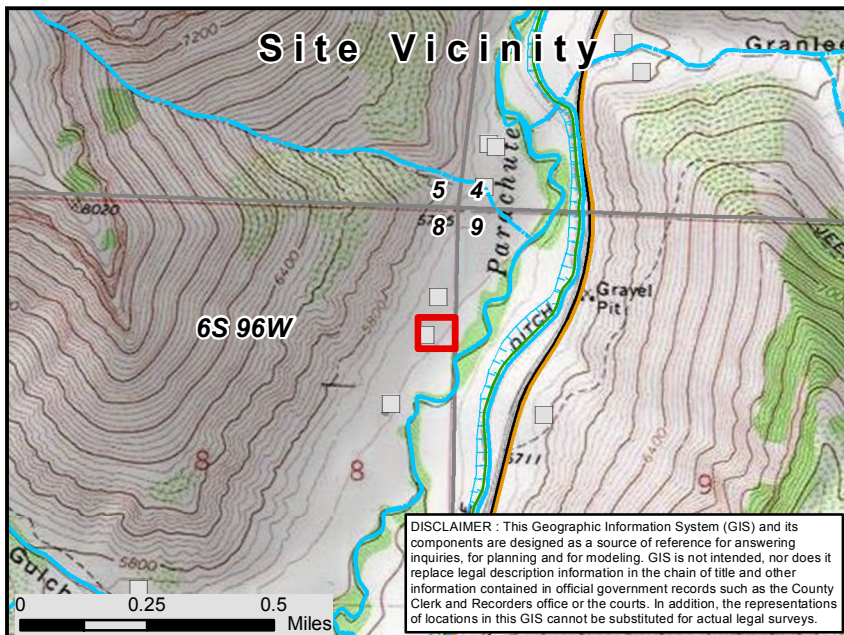
Parachute Creek 6 (Chevron 42A-8D) (Location ID 335795)
Partially Buried Vessel Removal (Non-Facility ID 435752)
Form 4 (Notice of completion)
Narrative Attachment

This Form 4 (Notice of Completion) was prepared for the purpose of describing completed work associated with the assessment of soil during the removal of a partially buried vessel (PBV) (Non-Facility ID 435752) at the Parachute Creek 6 (Chevron 42A-8D) pad location (Location ID 335795) in the Caerus Piceance, LLC (Caerus) area of operations. This assessment was conducted using procedures approved under COGCC Remediation #8164. A Form 19 was submitted to the COGCC, but at the time of reporting, a spill/release tracking number had not been assigned. However, based on analytical data, Carlos Lujan of the COGCC approved the closure of this project without this tracking number. A sample Location map is included as an attachment to this form.

Upon removing the PBV from the ground, visual observations and field screening of soil around and below the tank indicated that impacted soil was present. All impacted soil was removed and disposed of at ECDC Landfill in East Carbon, Utah.

On August 12, 14, and 16, 2013, confirmation soil samples were collected from the soil around and beneath the removed PBV (North Wall 14', East Wall 14', South Wall 14', West Wall 14', and Footprint 32'). Soil samples were submitted for laboratory analysis of all COGCC Table 910-1 analytes. Analytical results indicated all soil samples were in compliance with COGCC Table 910-1 Concentration Levels for all analytes or were within background concentration, except for the electrical conductivity (EC) measurement of soil sample Footprint 32'. However, this confirmation sample was collected at a depth greater than three feet below the ground surface and the COGCC does not apply the Concentration Level for EC to soils deeper than three feet below ground surface. Background samples were collected from undisturbed areas east of the excavated area. Laboratory analytical results are summarized in the attached analytical table and laboratory analytical reports are included as an attachment.

Based on removal of the PBV and soil analytical results, Caerus requests an NFA designation for this project.



Caerus Piceance LLC
Parachute Creek 6 PBV Removal
Soil Sample Confirmation and Background Analytical Results

COGCC Table 910-1 Analytical Suite	Table 910-1 Standard	Units	Sample ID							
			North Wall 14'	East Wall 14'	South Wall 14'	West Wall 14'	Footprint 32'	BKGD 1	BKGD 2	BKGD 3
Sample Date			8/14/2013	8/14/2013	8/12/2013	8/12/2013	8/16/2013	8/8/2013	8/8/2013	8/8/2013
Sample Type			Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Background	Background	Background
Metals										
Arsenic	0.39	mg/kg	9.5	9.4	8.4	7.1	2.0	10	9.2	9.4
Barium	15,000	mg/kg	240	270	290	260	47	NA	NA	NA
Cadmium	70	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA
Chromium (III)	120,000	mg/kg	9.6	11	11	11	2.2	NA	NA	NA
Chromium (VI)	23	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA
Copper	3,100	mg/kg	17	16	18	20	3.0	NA	NA	NA
Lead	400	mg/kg	13	13	12	11	2.5	NA	NA	NA
Mercury	23	mg/kg	0.022	0.026	ND	ND	0.032	NA	NA	NA
Nickel	1,600	mg/kg	17	18	19	19	3.2	NA	NA	NA
Selenium	390	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA
Silver	390	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA
Zinc	23,000	mg/kg	66	65	74	70	12	NA	NA	NA
Inorganics										
EC	4 or 2x background	mmhos/cm	0.87	1.2	0.49	0.91	5.7	1.2	NA	NA
pH	6-9	SU	8.5	8.1	8.2	8.2	7.6	7.9	NA	NA
SAR	12	unitless	3.6	2.9	2.5	3.5	5.6	0.62	NA	NA
Organics										
TPH-GRO			ND	ND	ND	ND	ND	NA	NA	NA
TPH-DRO			17	16	ND	ND	31	NA	NA	NA
TPH	500	mg/kg	17	16	ND	ND	31	NA	NA	NA
Benzene	0.17	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA
Toluene	85	mg/kg	ND	ND	ND	0.037	ND	NA	NA	NA
Ethylbenzene	100	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA
Total Xylenes	175	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA
Acenaphthene	1,000	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA
Anthracene	1,000	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA
Benz(a)anthracene	0.22	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA
Benzo(b)fluoranthene	0.22	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA
Benzo(k)fluoranthene	2.2	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA
Benzo(a)pyrene	0.022	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA
Chrysene	22	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA
Dibenzo(a,h)anthracene	0.022	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA
Fluoranthene	1,000	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA
Fluorene	1,000	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA
Indeno(1,2,3,c,d)pyrene	0.22	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA
Naphthalene	23	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA
Pyrene	1,000	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA

Notes:

< - less than the stated reporting limit

Highlight - indicates result exceeds the COGCC concentration level

COGCC - Colorado Oil and Gas Conservation Commission

EC - electrical conductivity

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

ND- non detect

NA - not analyzed

SAR - sodium adsorption ratio

SU - standard unit

TPH-GRO - total petroleum hydrocarbons-gasoline range organics

TPH-DRO - total petroleum hydrocarbons-diesel range organics

TPH - combination of TPH-GRO and TPH-DRO



19-Aug-2013

Herman Lucero
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Caerus Parachute Creek 6 Tank Removal 8/12/13**

Work Order: **1308506**

Dear Herman,

ALS Environmental received 2 samples on 14-Aug-2013 09:00 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 24.

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

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

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

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

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Caerus Parachute Creek 6 Tank Removal 8/12/13
Work Order: 1308506

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>
1308506-01	South Wall, 14'	Soil		8/12/2013 11:05	8/14/2013 09:00	<input type="checkbox"/>
1308506-02	West Wall, 14'	Soil		8/12/2013 11:10	8/14/2013 09:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Caerus Parachute Creek 6 Tank Removal 8/12/13
Work Order: 1308506

Case Narrative

Batch 50556 sample West Wall, 14' MS/MSD recoveries for Hexavalent Chromium were below the control limit. The corresponding result in the parent sample may be biased low.

Client: HRL Compliance Solutions
Project: Caerus Parachute Creek 6 Tank Removal 8/12/13
WorkOrder: 1308506

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

<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
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: 19-Aug-13

Client: HRL Compliance Solutions

Project: Caerus Parachute Creek 6 Tank Removal 8/12/13

Work Order: 1308506

Sample ID: South Wall, 14'

Lab ID: 1308506-01

Collection Date: 8/12/2013 11:05 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 8/14/2013	Analyst: RD
DRO (C10-C28)	ND		4.9	mg/Kg-dry	1	8/15/2013 12:44 PM
Surr: 4-Terphenyl-d14	64.8		39-115	%REC	1	8/15/2013 12:44 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015		Prep Date: 8/14/2013	Analyst: RD
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	8/14/2013 08:12 PM
Surr: Toluene-d8	114		50-150	%REC	1	8/14/2013 08:12 PM
MERCURY BY CVAA						
			SW7471		Prep Date: 8/15/2013	Analyst: LR
Mercury	ND		0.018	mg/Kg-dry	1	8/15/2013 03:55 PM
METALS BY ICP-MS						
			SW6020A		Prep Date: 8/14/2013	Analyst: RH
Arsenic	8.4		2.2	mg/Kg-dry	5	8/14/2013 09:40 PM
Barium	290		2.2	mg/Kg-dry	5	8/14/2013 09:40 PM
Cadmium	ND		0.89	mg/Kg-dry	5	8/14/2013 09:40 PM
Chromium	11		2.2	mg/Kg-dry	5	8/15/2013 02:12 PM
Copper	18		2.2	mg/Kg-dry	5	8/15/2013 02:12 PM
Lead	12		2.2	mg/Kg-dry	5	8/14/2013 09:40 PM
Nickel	19		2.2	mg/Kg-dry	5	8/15/2013 02:12 PM
Selenium	ND		2.2	mg/Kg-dry	5	8/14/2013 09:40 PM
Silver	ND		2.2	mg/Kg-dry	5	8/14/2013 09:40 PM
Zinc	74		4.4	mg/Kg-dry	5	8/15/2013 02:12 PM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep Date: 8/14/2013	Analyst: ML
Calcium	22		10	mg/L	20	8/19/2013 12:25 PM
Magnesium	8.5		4.0	mg/L	20	8/19/2013 12:25 PM
Sodium	54		4.0	mg/L	20	8/19/2013 12:25 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep Date: 8/14/2013	Analyst: ML
Sodium Adsorption Ratio	2.5		0.010	none	1	8/19/2013
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 8/14/2013	Analyst: HL
Acenaphthene	ND		18	µg/Kg-dry	1	8/15/2013 11:39 AM
Acenaphthylene	ND		35	µg/Kg-dry	1	8/15/2013 11:39 AM
Anthracene	ND		18	µg/Kg-dry	1	8/15/2013 11:39 AM
Benzo(a)anthracene	ND		20	µg/Kg-dry	1	8/15/2013 11:39 AM
Benzo(a)pyrene	ND		20	µg/Kg-dry	1	8/15/2013 11:39 AM
Benzo(b)fluoranthene	ND		21	µg/Kg-dry	1	8/15/2013 11:39 AM
Benzo(g,h,i)perylene	ND		33	µg/Kg-dry	1	8/15/2013 11:39 AM
Benzo(k)fluoranthene	ND		21	µg/Kg-dry	1	8/15/2013 11:39 AM
Chrysene	ND		18	µg/Kg-dry	1	8/15/2013 11:39 AM
Dibenzo(a,h)anthracene	ND		21	µg/Kg-dry	1	8/15/2013 11:39 AM
Fluoranthene	ND		18	µg/Kg-dry	1	8/15/2013 11:39 AM

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

ALS Group USA, Corp

Date: 19-Aug-13

Client: HRL Compliance Solutions

Project: Caerus Parachute Creek 6 Tank Removal 8/12/13

Sample ID: South Wall, 14'

Collection Date: 8/12/2013 11:05 AM

Work Order: 1308506

Lab ID: 1308506-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		18	µg/Kg-dry	1	8/15/2013 11:39 AM
Indeno(1,2,3-cd)pyrene	ND		23	µg/Kg-dry	1	8/15/2013 11:39 AM
Naphthalene	ND		18	µg/Kg-dry	1	8/15/2013 11:39 AM
Pyrene	ND		18	µg/Kg-dry	1	8/15/2013 11:39 AM
Surr: 2-Fluorobiphenyl	64.7		12-100	%REC	1	8/15/2013 11:39 AM
Surr: 4-Terphenyl-d14	112		25-137	%REC	1	8/15/2013 11:39 AM
Surr: Nitrobenzene-d5	58.4		37-107	%REC	1	8/15/2013 11:39 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 8/14/2013	Analyst: AK
Benzene	ND		36	µg/Kg-dry	1	8/14/2013 04:25 PM
Ethylbenzene	ND		36	µg/Kg-dry	1	8/14/2013 04:25 PM
m,p-Xylene	ND		72	µg/Kg-dry	1	8/14/2013 04:25 PM
o-Xylene	ND		36	µg/Kg-dry	1	8/14/2013 04:25 PM
Toluene	ND		36	µg/Kg-dry	1	8/14/2013 04:25 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	8/14/2013 04:25 PM
Surr: 1,2-Dichloroethane-d4	97.6		70-130	%REC	1	8/14/2013 04:25 PM
Surr: 4-Bromofluorobenzene	103		70-130	%REC	1	8/14/2013 04:25 PM
Surr: Dibromofluoromethane	97.0		70-130	%REC	1	8/14/2013 04:25 PM
Surr: Toluene-d8	98.4		70-130	%REC	1	8/14/2013 04:25 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 8/14/2013	Analyst: JB
Electrical Conductivity @ Saturation	0.49		0.050	mmhos/cm @25	10	8/19/2013 11:15 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	11		0.60	mg/Kg-dry	1	8/15/2013 06:00 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 8/14/2013	Analyst: MB
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	8/15/2013 12:00 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	17		0.050	% of sample	1	8/14/2013 02:45 PM
PH			SW9045D		Prep Date: 8/14/2013	Analyst: EE
pH	8.2			s.u.	1	8/14/2013 05:30 PM

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

ALS Group USA, Corp

Date: 19-Aug-13

Client: HRL Compliance Solutions

Project: Caerus Parachute Creek 6 Tank Removal 8/12/13

Work Order: 1308506

Sample ID: West Wall, 14'

Lab ID: 1308506-02

Collection Date: 8/12/2013 11:10 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 8/14/2013	Analyst: RD
DRO (C10-C28)	ND		4.9	mg/Kg-dry	1	8/15/2013 01:14 AM
Surr: 4-Terphenyl-d14	65.2		39-115	%REC	1	8/15/2013 01:14 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015		Prep Date: 8/14/2013	Analyst: RD
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	8/14/2013 08:37 PM
Surr: Toluene-d8	115		50-150	%REC	1	8/14/2013 08:37 PM
MERCURY BY CVAA						
			SW7471		Prep Date: 8/15/2013	Analyst: LR
Mercury	ND		0.019	mg/Kg-dry	1	8/15/2013 03:58 PM
METALS BY ICP-MS						
			SW6020A		Prep Date: 8/14/2013	Analyst: RH
Arsenic	7.1		2.1	mg/Kg-dry	5	8/14/2013 09:46 PM
Barium	260		2.1	mg/Kg-dry	5	8/14/2013 09:46 PM
Cadmium	ND		0.82	mg/Kg-dry	5	8/14/2013 09:46 PM
Chromium	11		2.1	mg/Kg-dry	5	8/15/2013 02:18 PM
Copper	20		2.1	mg/Kg-dry	5	8/15/2013 02:18 PM
Lead	11		2.1	mg/Kg-dry	5	8/14/2013 09:46 PM
Nickel	19		2.1	mg/Kg-dry	5	8/15/2013 02:18 PM
Selenium	ND		2.1	mg/Kg-dry	5	8/14/2013 09:46 PM
Silver	ND		2.1	mg/Kg-dry	5	8/14/2013 09:46 PM
Zinc	70		4.1	mg/Kg-dry	5	8/15/2013 02:18 PM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep Date: 8/14/2013	Analyst: ML
Calcium	37		10	mg/L	20	8/19/2013 12:31 PM
Magnesium	12		4.0	mg/L	20	8/19/2013 12:31 PM
Sodium	96		4.0	mg/L	20	8/19/2013 12:31 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep Date: 8/14/2013	Analyst: ML
Sodium Adsorption Ratio	3.5		0.010	none	1	8/19/2013
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 8/14/2013	Analyst: HL
Acenaphthene	ND		18	µg/Kg-dry	1	8/15/2013 12:01 PM
Acenaphthylene	ND		35	µg/Kg-dry	1	8/15/2013 12:01 PM
Anthracene	ND		18	µg/Kg-dry	1	8/15/2013 12:01 PM
Benzo(a)anthracene	ND		20	µg/Kg-dry	1	8/15/2013 12:01 PM
Benzo(a)pyrene	ND		20	µg/Kg-dry	1	8/15/2013 12:01 PM
Benzo(b)fluoranthene	ND		21	µg/Kg-dry	1	8/15/2013 12:01 PM
Benzo(g,h,i)perylene	ND		33	µg/Kg-dry	1	8/15/2013 12:01 PM
Benzo(k)fluoranthene	ND		21	µg/Kg-dry	1	8/15/2013 12:01 PM
Chrysene	ND		18	µg/Kg-dry	1	8/15/2013 12:01 PM
Dibenzo(a,h)anthracene	ND		21	µg/Kg-dry	1	8/15/2013 12:01 PM
Fluoranthene	ND		18	µg/Kg-dry	1	8/15/2013 12:01 PM

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

ALS Group USA, Corp

Date: 19-Aug-13

Client: HRL Compliance Solutions

Project: Caerus Parachute Creek 6 Tank Removal 8/12/13

Work Order: 1308506

Sample ID: West Wall, 14'

Lab ID: 1308506-02

Collection Date: 8/12/2013 11:10 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		18	µg/Kg-dry	1	8/15/2013 12:01 PM
Indeno(1,2,3-cd)pyrene	ND		24	µg/Kg-dry	1	8/15/2013 12:01 PM
Naphthalene	ND		18	µg/Kg-dry	1	8/15/2013 12:01 PM
Pyrene	ND		18	µg/Kg-dry	1	8/15/2013 12:01 PM
Surr: 2-Fluorobiphenyl	72.7		12-100	%REC	1	8/15/2013 12:01 PM
Surr: 4-Terphenyl-d14	107		25-137	%REC	1	8/15/2013 12:01 PM
Surr: Nitrobenzene-d5	62.8		37-107	%REC	1	8/15/2013 12:01 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 8/14/2013	Analyst: AK
Benzene	ND		36	µg/Kg-dry	1	8/14/2013 04:49 PM
Ethylbenzene	ND		36	µg/Kg-dry	1	8/14/2013 04:49 PM
m,p-Xylene	ND		72	µg/Kg-dry	1	8/14/2013 04:49 PM
o-Xylene	ND		36	µg/Kg-dry	1	8/14/2013 04:49 PM
Toluene	37		36	µg/Kg-dry	1	8/14/2013 04:49 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	8/14/2013 04:49 PM
Surr: 1,2-Dichloroethane-d4	100		70-130	%REC	1	8/14/2013 04:49 PM
Surr: 4-Bromofluorobenzene	104		70-130	%REC	1	8/14/2013 04:49 PM
Surr: Dibromofluoromethane	99.2		70-130	%REC	1	8/14/2013 04:49 PM
Surr: Toluene-d8	99.6		70-130	%REC	1	8/14/2013 04:49 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 8/14/2013	Analyst: JB
Electrical Conductivity @ Saturation	0.91		0.050	mmhos/cm @25	10	8/19/2013 11:15 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	11		0.60	mg/Kg-dry	1	8/15/2013 06:00 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 8/14/2013	Analyst: MB
Chromium, Hexavalent	ND		0.61	mg/Kg-dry	1	8/15/2013 12:00 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	17		0.050	% of sample	1	8/14/2013 02:45 PM
PH			SW9045D		Prep Date: 8/14/2013	Analyst: EE
pH	8.2			s.u.	1	8/14/2013 05:30 PM

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

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1308506

Project: Caerus Parachute Creek 6 Tank Removal 8/12/13

Batch ID: 50523

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-50523-50523				Units: mg/Kg		Analysis Date: 8/14/2013 06:14 PM		
Client ID:		Run ID: GC8_130814A				SeqNo: 2414842		Prep Date: 8/14/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
Surr: 4-Terphenyl-d14	1.15	0	1.667	0	69	39-115	0			

LCS		Sample ID: DLCSS1-50523-50523				Units: mg/Kg		Analysis Date: 8/14/2013 06:44 PM		
Client ID:		Run ID: GC8_130814A				SeqNo: 2414843		Prep Date: 8/14/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	151.6	4.2	166.7	0	91	49-124	0			
Surr: 4-Terphenyl-d14	1.18	0	1.667	0	70.8	39-115	0			

MS		Sample ID: 1308421-07B MS				Units: mg/Kg		Analysis Date: 8/14/2013 07:14 PM		
Client ID:		Run ID: GC8_130814A				SeqNo: 2414844		Prep Date: 8/14/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	451.1	12	493.1	72.78	76.7	49-130	0			
Surr: 4-Terphenyl-d14	3.388	0	4.931	0	68.7	39-115	0			

MSD		Sample ID: 1308421-07B MSD				Units: mg/Kg		Analysis Date: 8/14/2013 07:44 PM		
Client ID:		Run ID: GC8_130814A				SeqNo: 2414845		Prep Date: 8/14/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	444.9	12	484.5	72.78	76.8	49-130	451.1	1.4	30	
Surr: 4-Terphenyl-d14	3.545	0	4.845	0	73.2	39-115	3.388	4.54	30	

The following samples were analyzed in this batch: | 1308506-01B | 1308506-02B |

Client: HRL Compliance Solutions
Work Order: 1308506
Project: Caerus Parachute Creek 6 Tank Removal 8/12/13

QC BATCH REPORT

Batch ID: **50529** Instrument ID **GC9** Method: **SW8015**

MS		Sample ID: 1308457-01A MS				Units: µg/Kg		Analysis Date: 8/14/2013 09:53 PM		
Client ID:		Run ID: GC9_130814A				SeqNo: 2414591		Prep Date: 8/14/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	539700	2,500	500000	0	108	70-130	0			
<i>Surr: Toluene-d8</i>	<i>5440</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>109</i>	<i>50-150</i>	<i>0</i>			

MSD		Sample ID: 1308457-01A MSD				Units: µg/Kg		Analysis Date: 8/14/2013 10:18 PM		
Client ID:		Run ID: GC9_130814A				SeqNo: 2414606		Prep Date: 8/14/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	528900	2,500	500000	0	106	70-130	539700	2.02	30	
<i>Surr: Toluene-d8</i>	<i>5109</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>102</i>	<i>50-150</i>	<i>5440</i>	<i>6.28</i>	<i>30</i>	

The following samples were analyzed in this batch: 1308506-01A 1308506-02A

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

Client: HRL Compliance Solutions
Work Order: 1308506
Project: Caerus Parachute Creek 6 Tank Removal 8/12/13

QC BATCH REPORT

Batch ID: **50562** Instrument ID **HG1** Method: **SW7471**

MBLK	Sample ID: MBLK-50562-50562					Units: mg/Kg		Analysis Date: 8/15/2013 03:43 PM		
Client ID:	Run ID: HG1_130815A				SeqNo: 2415288		Prep Date: 8/15/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.002083 0.020 J

LCS	Sample ID: LCS-50562-50562					Units: mg/Kg		Analysis Date: 8/15/2013 03:45 PM		
Client ID:	Run ID: HG1_130815A				SeqNo: 2415290		Prep Date: 8/15/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1759 0.020 0.1665 0 106 80-120 0

MS	Sample ID: 1308566-01BMS					Units: mg/Kg		Analysis Date: 8/15/2013 04:12 PM		
Client ID:	Run ID: HG1_130815A				SeqNo: 2415308		Prep Date: 8/15/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.155 0.015 0.1244 0.02228 107 75-125 0

MSD	Sample ID: 1308566-01BMSD					Units: mg/Kg		Analysis Date: 8/15/2013 04:14 PM		
Client ID:	Run ID: HG1_130815A				SeqNo: 2415318		Prep Date: 8/15/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1536 0.015 0.1229 0.02228 107 75-125 0.155 0.957 35

The following samples were analyzed in this batch:

1308506-01B 1308506-02B

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

Client: HRL Compliance Solutions
Work Order: 1308506
Project: Caerus Parachute Creek 6 Tank Removal 8/12/13

QC BATCH REPORT

Batch ID: **50541** Instrument ID **ICPMS2** Method: **SW6020A**

MBLK		Sample ID: MBLK-50541-50541				Units: mg/Kg		Analysis Date: 8/14/2013 06:46 PM		
Client ID:		Run ID: ICPMS2_130814A				SeqNo: 2414501		Prep Date: 8/14/2013		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	0.04665	0.25								J
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	0.006185	0.25								J
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.04094	0.50								J

LCS		Sample ID: LCS-50541-50541				Units: mg/Kg		Analysis Date: 8/14/2013 06:52 PM		
Client ID:		Run ID: ICPMS2_130814A				SeqNo: 2414502		Prep Date: 8/14/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.772	0.25	5	0	95.4	80-120	0			
Barium	5.015	0.25	5	0	100	80-120	0			
Cadmium	4.924	0.10	5	0	98.5	80-120	0			
Chromium	4.405	0.25	5	0	88.1	80-120	0			
Copper	4.898	0.25	5	0	98	80-120	0			
Lead	4.831	0.25	5	0	96.6	80-120	0			
Nickel	4.832	0.25	5	0	96.6	80-120	0			
Selenium	4.848	0.25	5	0	97	80-120	0			
Silver	5.125	0.25	5	0	102	80-120	0			
Zinc	4.812	0.50	5	0	96.2	80-120	0			

MS		Sample ID: 1308471-02AMS				Units: mg/Kg		Analysis Date: 8/14/2013 07:30 PM		
Client ID:		Run ID: ICPMS2_130814A				SeqNo: 2414509		Prep Date: 8/14/2013		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.924	1.9	7.657	1.056	103	75-125	0			
Cadmium	8.273	0.77	7.657	-0.01833	108	75-125	0			
Chromium	11.88	1.9	7.657	4.48	96.6	75-125	0			
Copper	12.78	1.9	7.657	4.438	109	75-125	0			
Lead	10.07	1.9	7.657	2.779	95.3	75-125	0			
Nickel	13.03	1.9	7.657	5.234	102	75-125	0			
Selenium	7.845	1.9	7.657	0.304	98.5	75-125	0			
Silver	8.254	1.9	7.657	0.02599	107	75-125	0			
Zinc	18.76	3.8	7.657	10.57	107	75-125	0			

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

Client: HRL Compliance Solutions
Work Order: 1308506
Project: Caerus Parachute Creek 6 Tank Removal 8/12/13

QC BATCH REPORT

Batch ID: **50541** Instrument ID **ICPMS2** Method: **SW6020A**

MSD		Sample ID: 1308471-02AMSD				Units: mg/Kg		Analysis Date: 8/14/2013 07:35 PM		
Client ID:		Run ID: ICPMS2_130814A				SeqNo: 2414510		Prep Date: 8/14/2013		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.917	2.0	7.962	1.056	98.7	75-125	8.924	0.0785	25	
Cadmium	8.276	0.80	7.962	-0.01833	104	75-125	8.273	0.0353	25	
Chromium	11.71	2.0	7.962	4.48	90.8	75-125	11.88	1.39	25	
Copper	11.78	2.0	7.962	4.438	92.2	75-125	12.78	8.14	25	
Lead	10.3	2.0	7.962	2.779	94.5	75-125	10.07	2.22	25	
Nickel	12.44	2.0	7.962	5.234	90.5	75-125	13.03	4.65	25	
Selenium	7.958	2.0	7.962	0.304	96.1	75-125	7.845	1.43	25	
Silver	8.368	2.0	7.962	0.02599	105	75-125	8.254	1.37	25	
Zinc	18.07	4.0	7.962	10.57	94.2	75-125	18.76	3.73	25	

The following samples were analyzed in this batch:

1308506-01B 1308506-02B

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

Client: HRL Compliance Solutions
Work Order: 1308506
Project: Caerus Parachute Creek 6 Tank Removal 8/12/13

QC BATCH REPORT

Batch ID: **50522** Instrument ID **SVMS7** Method: **SW8270**

MBLK Sample ID: SBLKS1-50522-50522				Units: µg/Kg			Analysis Date: 8/15/2013 08:23 AM			
Client ID:		Run ID: SVMS7_130815A		SeqNo: 2414603		Prep Date: 8/14/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	30								
Acenaphthylene	ND	30								
Anthracene	ND	30								
Benzo(a)anthracene	ND	30								
Benzo(a)pyrene	ND	30								
Benzo(b)fluoranthene	ND	30								
Benzo(g,h,i)perylene	ND	30								
Benzo(k)fluoranthene	ND	30								
Chrysene	ND	30								
Dibenzo(a,h)anthracene	ND	30								
Fluoranthene	ND	30								
Fluorene	ND	30								
Indeno(1,2,3-cd)pyrene	ND	30								
Naphthalene	ND	30								
Pyrene	ND	30								
<i>Surr: 2-Fluorobiphenyl</i>	1282	0	1667	0	76.9	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1952	0	1667	0	117	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1118	0	1667	0	67.1	37-107	0			

LCS Sample ID: SLCSS1-50522-50522				Units: µg/Kg			Analysis Date: 8/15/2013 08:45 AM			
Client ID:		Run ID: SVMS7_130815A		SeqNo: 2414604		Prep Date: 8/14/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	490.3	30	666.7	0	73.5	45-110	0			
Acenaphthylene	532.3	30	666.7	0	79.8	45-105	0			
Anthracene	601	30	666.7	0	90.1	55-105	0			
Benzo(a)anthracene	560.7	30	666.7	0	84.1	50-110	0			
Benzo(a)pyrene	638.7	30	666.7	0	95.8	50-110	0			
Benzo(b)fluoranthene	632.7	30	666.7	0	94.9	45-115	0			
Benzo(g,h,i)perylene	572.7	30	666.7	0	85.9	40-125	0			
Benzo(k)fluoranthene	638.7	30	666.7	0	95.8	45-115	0			
Chrysene	589.7	30	666.7	0	88.4	55-110	0			
Dibenzo(a,h)anthracene	624.7	30	666.7	0	93.7	40-125	0			
Fluoranthene	630.3	30	666.7	0	94.5	55-115	0			
Fluorene	540.7	30	666.7	0	81.1	50-110	0			
Indeno(1,2,3-cd)pyrene	608.7	30	666.7	0	91.3	40-120	0			
Naphthalene	518.7	30	666.7	0	77.8	40-105	0			
Pyrene	623.3	30	666.7	0	93.5	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1319	0	1667	0	79.1	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1880	0	1667	0	113	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1218	0	1667	0	73.1	37-107	0			

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

Client: HRL Compliance Solutions
Work Order: 1308506
Project: Caerus Parachute Creek 6 Tank Removal 8/12/13

QC BATCH REPORT

Batch ID: **50522** Instrument ID **SVMS7** Method: **SW8270**

MS				Units: µg/Kg			Analysis Date: 8/15/2013 09:06 AM			
Client ID:		Run ID: SVMS7_130815A		SeqNo: 2414605		Prep Date: 8/14/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1364	85	1886	0	72.3	45-110	0			
Acenaphthylene	1451	85	1886	0	76.9	45-105	0			
Anthracene	1617	85	1886	0	85.7	55-105	0			
Benzo(a)anthracene	1575	85	1886	54.6	80.7	50-110	0			
Benzo(a)pyrene	1775	85	1886	0	94.1	50-110	0			
Benzo(b)fluoranthene	1827	85	1886	0	96.9	45-115	0			
Benzo(g,h,i)perylene	1622	85	1886	13.65	85.3	40-125	0			
Benzo(k)fluoranthene	1816	85	1886	0	96.3	45-115	0			
Chrysene	1654	85	1886	0	87.7	55-110	0			
Dibenzo(a,h)anthracene	1731	85	1886	0	91.8	40-125	0			
Fluoranthene	1645	85	1886	10.72	86.7	55-115	0			
Fluorene	1492	85	1886	0	79.1	50-110	0			
Indeno(1,2,3-cd)pyrene	1715	85	1886	0	90.9	40-120	0			
Naphthalene	1409	85	1886	0	74.7	40-105	0			
Pyrene	1841	85	1886	23.4	96.4	45-125	0			
Surr: 2-Fluorobiphenyl	3635	0	4714	0	77.1	12-100	0			
Surr: 4-Terphenyl-d14	5405	0	4714	0	115	25-137	0			
Surr: Nitrobenzene-d5	3199	0	4714	0	67.9	37-107	0			

MSD				Units: µg/Kg			Analysis Date: 8/15/2013 09:28 AM			
Client ID:		Run ID: SVMS7_130815A		SeqNo: 2414607		Prep Date: 8/14/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1318	83	1841	0	71.6	45-110	1364	3.45	30	
Acenaphthylene	1407	83	1841	0	76.4	45-105	1451	3.06	30	
Anthracene	1611	83	1841	0	87.5	55-105	1617	0.392	30	
Benzo(a)anthracene	1508	83	1841	54.6	79	50-110	1575	4.35	30	
Benzo(a)pyrene	1743	83	1841	0	94.7	50-110	1775	1.83	30	
Benzo(b)fluoranthene	1810	83	1841	0	98.3	45-115	1827	0.927	30	
Benzo(g,h,i)perylene	1552	83	1841	13.65	83.6	40-125	1622	4.41	30	
Benzo(k)fluoranthene	1765	83	1841	0	95.9	45-115	1816	2.83	30	
Chrysene	1588	83	1841	0	86.2	55-110	1654	4.08	30	
Dibenzo(a,h)anthracene	1685	83	1841	0	91.5	40-125	1731	2.68	30	
Fluoranthene	1640	83	1841	10.72	88.5	55-115	1645	0.314	30	
Fluorene	1466	83	1841	0	79.6	50-110	1492	1.78	30	
Indeno(1,2,3-cd)pyrene	1674	83	1841	0	90.9	40-120	1715	2.41	30	
Naphthalene	1377	83	1841	0	74.8	40-105	1409	2.35	30	
Pyrene	1801	83	1841	23.4	96.6	45-125	1841	2.21	30	
Surr: 2-Fluorobiphenyl	3500	0	4602	0	76.1	12-100	3635	3.8	40	
Surr: 4-Terphenyl-d14	5342	0	4602	0	116	25-137	5405	1.16	40	
Surr: Nitrobenzene-d5	3161	0	4602	0	68.7	37-107	3199	1.18	40	

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

Client: HRL Compliance Solutions
Work Order: 1308506
Project: Caerus Parachute Creek 6 Tank Removal 8/12/13

QC BATCH REPORT

Batch ID: **50522** Instrument ID **SVMS7** Method: **SW8270**

The following samples were analyzed in this batch:

1308506-01B	1308506-02B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1308506
Project: Caerus Parachute Creek 6 Tank Removal 8/12/13

QC BATCH REPORT

Batch ID: **50529** Instrument ID **VMS5** Method: **SW8260B**

MBLK		Sample ID: MBLK-50529-50529				Units: µg/Kg		Analysis Date: 8/14/2013 12:09 PM		
Client ID:		Run ID: VMS5_130814A				SeqNo: 2413870		Prep Date: 8/14/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
GRO (C6-C10)	ND	2,500								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1010</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>1012</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>956</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>95.6</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>998.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.8</i>	<i>70-130</i>	<i>0</i>			

LCS		Sample ID: LCS-50529-50529				Units: µg/Kg		Analysis Date: 8/14/2013 10:59 AM		
Client ID:		Run ID: VMS5_130814A				SeqNo: 2413869		Prep Date: 8/14/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	964.5	30	1000	0	96.4	75-125	0			
Ethylbenzene	1055	30	1000	0	106	75-125	0			
m,p-Xylene	2124	60	2000	0	106	80-125	0			
o-Xylene	1042	30	1000	0	104	75-125	0			
Toluene	978.5	30	1000	0	97.8	70-125	0			
Xylenes, Total	3166	90	3000	0	106	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1004</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>984.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.4</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>985.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.6</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>975</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.5</i>	<i>70-130</i>	<i>0</i>			

MS		Sample ID: 1308457-01A MS				Units: µg/Kg		Analysis Date: 8/15/2013 09:10 AM		
Client ID:		Run ID: VMS6_130814A				SeqNo: 2414722		Prep Date: 8/14/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	982.5	30	1000	0	98.2	75-125	0			
Ethylbenzene	994	30	1000	0	99.4	75-125	0			
m,p-Xylene	1976	60	2000	0	98.8	80-125	0			
o-Xylene	997.5	30	1000	0	99.8	75-125	0			
Toluene	928	30	1000	0	92.8	70-125	0			
Xylenes, Total	2974	90	3000	0	99.1	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1008</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>996</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.6</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>1020</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>987</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.7</i>	<i>70-130</i>	<i>0</i>			

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

Client: HRL Compliance Solutions
Work Order: 1308506
Project: Caerus Parachute Creek 6 Tank Removal 8/12/13

QC BATCH REPORT

Batch ID: **50529** Instrument ID **VMS5** Method: **SW8260B**

MSD				Sample ID: 1308457-01A MSD			Units: µg/Kg		Analysis Date: 8/15/2013 09:36 AM	
Client ID:				Run ID: VMS6_130814A			SeqNo: 2414723		Prep Date: 8/14/2013	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	916.5	30	1000	0	91.6	75-125	982.5	6.95	30	
Ethylbenzene	927	30	1000	0	92.7	75-125	994	6.98	30	
m,p-Xylene	1858	60	2000	0	92.9	80-125	1976	6.16	30	
o-Xylene	947	30	1000	0	94.7	75-125	997.5	5.19	30	
Toluene	872.5	30	1000	0	87.2	70-125	928	6.16	30	
Xylenes, Total	2805	90	3000	0	93.5	75-125	2974	5.83	30	
Surr: 1,2-Dichloroethane-d4	1016	0	1000	0	102	70-130	1008	0.692	30	
Surr: 4-Bromofluorobenzene	1026	0	1000	0	103	70-130	996	2.97	30	
Surr: Dibromofluoromethane	1016	0	1000	0	102	70-130	1020	0.295	30	
Surr: Toluene-d8	1015	0	1000	0	102	70-130	987	2.8	30	

The following samples were analyzed in this batch: 1308506-01A 1308506-02A

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

Client: HRL Compliance Solutions
Work Order: 1308506
Project: Caerus Parachute Creek 6 Tank Removal 8/12/13

QC BATCH REPORT

Batch ID: **50554** Instrument ID **WETCHEM** Method: **SW9045D**

LCS				Sample ID: LCS-50554-50554				Units: s.u.				Analysis Date: 8/14/2013 05:30 PM											
Client ID:				Run ID: WETCHEM_130814P				SeqNo: 2414217				Prep Date: 8/14/2013				DF: 1							
Analyte				Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	
pH				4.19		0		4.4		0		95.2		90-110		0							

DUP				Sample ID: 1308465-01A DUP				Units: s.u.			Analysis Date: 8/14/2013 05:30 PM		
Client ID:				Run ID: WETCHEM_130814P				SeqNo: 2414221		Prep Date: 8/14/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH	7.95	0	0	0	0	0-0	8.03	1	20				

The following samples were analyzed in this batch:

1308506-01B 1308506-02B

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

Client: HRL Compliance Solutions
Work Order: 1308506
Project: Caerus Parachute Creek 6 Tank Removal 8/12/13

QC BATCH REPORT

Batch ID: **50556** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-50556-50556				Units: mg/Kg		Analysis Date: 8/15/2013 12:00 PM		
Client ID:		Run ID: WETCHEM_130815F				SeqNo: 2415051		Prep Date: 8/14/2013		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-50556-50556				Units: mg/Kg		Analysis Date: 8/15/2013 12:00 PM		
Client ID:		Run ID: WETCHEM_130815F				SeqNo: 2415050		Prep Date: 8/14/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.872 0.50 2 0 93.6 80-120 0

MS		Sample ID: 1308506-02B MS				Units: mg/Kg		Analysis Date: 8/15/2013 12:00 PM		
Client ID: West Wall, 14'		Run ID: WETCHEM_130815F				SeqNo: 2415048		Prep Date: 8/14/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.636 0.51 2.024 0.1992 71 75-125 0 S

MSD		Sample ID: 1308506-02B MSD				Units: mg/Kg		Analysis Date: 8/15/2013 12:00 PM		
Client ID: West Wall, 14'		Run ID: WETCHEM_130815F				SeqNo: 2415049		Prep Date: 8/14/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.636 0.51 2.024 0.1992 71 75-125 1.636 0 20 S

The following samples were analyzed in this batch:

1308506-01B 1308506-02B

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

Client: HRL Compliance Solutions
Work Order: 1308506
Project: Caerus Parachute Creek 6 Tank Removal 8/12/13

QC BATCH REPORT

Batch ID: **R125160** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R125160				Units: % of sample			Analysis Date: 8/14/2013 02:45 PM		
Client ID:	Run ID: MOIST_130814A				SeqNo: 2414659		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 0.03 0.050 J

LCS	Sample ID: LCS-R125160				Units: % of sample			Analysis Date: 8/14/2013 02:45 PM		
Client ID:	Run ID: MOIST_130814A				SeqNo: 2414658		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: 1308490-04A DUP				Units: % of sample			Analysis Date: 8/14/2013 02:45 PM		
Client ID:	Run ID: MOIST_130814A				SeqNo: 2414642		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 17.25 0.050 0 0 0 0-0 17.34 0.52 20

DUP	Sample ID: 1308507-01A DUP				Units: % of sample			Analysis Date: 8/14/2013 02:45 PM		
Client ID:	Run ID: MOIST_130814A				SeqNo: 2414647		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 7.49 0.050 0 0 0 0-0 7.43 0.804 20

The following samples were analyzed in this batch:

1308506-01B 1308506-02B

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 202r8

WORKORDER #

1308506

CAERUS

SAMPLER Casey Richardson

DATE 8-13-13

PAGE 1 of 1

PROJECT NAME PARACHUTE CREEK & TANK REMOVAL

SITE ID

TURNAROUND 24 HOUR

DISPOSAL By Lab or Return to Client

PROJECT No.

EDD FORMAT

COMPANY NAME HCSI

BILL TO COMPANY ~~PDC Energy~~ CAERUS

SEND REPORT TO Herman Lucero

INVOICE ATTN TO Ed Winters

ADDRESS 2385 F 1/2 Road

ADDRESS 120 Railroad Ave. Suite D

CITY / STATE / ZIP Grand Junction, CO. 81505

CITY / STATE / ZIP Parachute, CO 81635

PHONE 970-243-3271

PHONE 970-285-9606

FAX 970-243-3280

FAX

E-MAIL hlucero@hrlcomp.com
crichardson@hrlcomp.com

E-MAIL ewinters@pdce.com

Lab ID

Field ID

Matrix

Sample Date

Sample Time

Bottles

Pres.

QC

DRO

GRO

BTEX

TOTAL METALS - LABEL 910-1

SEMI VOLS - PAH

SAR

EC

pH

1 SOUTH WALL, 14'

SOIL

8-12-13

1105

3

8

X

X

X

X

X

X

X

X

2 WEST WALL, 14'

SOIL

8-12-13

1110

3

8

X

X

X

X

X

X

X

X

*Time Zone (Circle): EST CST MS 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)
3.4'	<input checked="" type="checkbox"/> LEVEL II (Standard QC)
	<input type="checkbox"/> LEVEL III (Std QC + forms)
	<input type="checkbox"/> LEVEL IV (Std QC + forms + raw data)
	<input type="checkbox"/>
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
	Casey Richardson	8-13-13	1240
	Mike	8-13-13	1241
	Diane F Shaw	8-13-13	1745
	Diane F Shaw	8/14/13	0900

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **14-Aug-13 09:00**

Work Order: **1308506**

Received by: **DS**

Checklist completed by Diane Shaw 14-Aug-13
eSignature Date

Reviewed by: Ann Preston 15-Aug-13
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 type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.4 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>8/14/2013 10:35:47 AM</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: (970) 424-4749
Lab Hub, LLC

Origin ID: RILA



Ship Date: 13AUG13
ActWgt: 74.0 LB
CAD: 103923490/INET3430

Dims: 25 X 14 X 15 IN

127 E First Street

PARACHUTE, CO 81635



J13201306280326

SHIP TO: (616) 399-6070

BILL RECIPIENT

Sample recieving
ALS Holland
3352 128TH AVE

HOLLAND, MI 49424

Delivery Address Bar Code



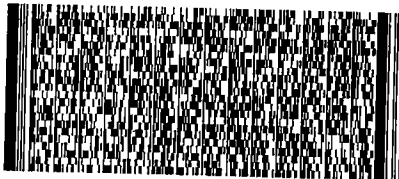
Ref # 1001-081313-1
Invoice #
PO #
Dept #

WED - 14 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 7964 5694 1140
0201

XX GRRA

49424
MI-US
GRR



51AG10889/1AGE

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Lab Hub LLC

Quantity Seal

Date



20-Aug-2013

Herman Lucero
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Caerus Parachute Creek 6 8/14/13**

Work Order: **1308566**

Dear Herman,

ALS Environmental received 2 samples on 15-Aug-2013 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 26.

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

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

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Caerus Parachute Creek 6 8/14/13
Work Order: 1308566

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>
1308566-01	East Wall 14'	Soil		8/14/2013 10:15	8/15/2013 10:00	<input type="checkbox"/>
1308566-02	North Wall 14'	Soil		8/14/2013 10:50	8/15/2013 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Caerus Parachute Creek 6/8/14/13
Work Order: 1308566

Case Narrative

Batch 50567 MS/MSD data for PAHs is not related to this project's samples. No data requires qualification.

Batch 50583 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch R125226 Duplicate data for % Moisture is not related to this project's samples. No data requires qualification.

Client: HRL Compliance Solutions
Project: Caerus Parachute Creek 6 8/14/13
WorkOrder: 1308566

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

<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
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: 20-Aug-13

Client: HRL Compliance Solutions
Project: Caerus Parachute Creek 6 8/14/13
Sample ID: East Wall 14'
Collection Date: 8/14/2013 10:15 AM

Work Order: 1308566
Lab ID: 1308566-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	16		SW8015M		Prep Date: 8/15/2013	Analyst: RD
			4.8	mg/Kg-dry	1	8/15/2013 08:16 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>57.8</i>		<i>39-115</i>	<i>%REC</i>	1	8/15/2013 08:16 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep Date: 8/15/2013	Analyst: RD
			2.9	mg/Kg-dry	1	8/15/2013 03:07 PM
<i>Surr: Toluene-d8</i>	<i>115</i>		<i>50-150</i>	<i>%REC</i>	1	8/15/2013 03:07 PM
MERCURY BY CVAA						
Mercury	0.026		SW7471		Prep Date: 8/15/2013	Analyst: LR
			0.018	mg/Kg-dry	1	8/15/2013 04:02 PM
METALS BY ICP-MS						
Arsenic	9.4		SW6020A		Prep Date: 8/15/2013	Analyst: ML
			2.1	mg/Kg-dry	5	8/15/2013 06:46 PM
Barium	270		2.1	mg/Kg-dry	5	8/15/2013 06:46 PM
Cadmium	ND		0.84	mg/Kg-dry	5	8/15/2013 06:46 PM
Chromium	11		2.1	mg/Kg-dry	5	8/15/2013 06:46 PM
Copper	16		2.1	mg/Kg-dry	5	8/15/2013 06:46 PM
Lead	13		2.1	mg/Kg-dry	5	8/15/2013 06:46 PM
Nickel	18		2.1	mg/Kg-dry	5	8/15/2013 06:46 PM
Selenium	ND		2.1	mg/Kg-dry	5	8/15/2013 06:46 PM
Silver	ND		2.1	mg/Kg-dry	5	8/15/2013 06:46 PM
Zinc	65		4.2	mg/Kg-dry	5	8/15/2013 06:46 PM
SOLUBLE CATIONS FOR SAR						
Calcium	67		SW6020A		Prep Date: 8/19/2013	Analyst: ML
			10	mg/L	20	8/19/2013 12:37 PM
Magnesium	21		4.0	mg/L	20	8/19/2013 12:37 PM
Sodium	110		4.0	mg/L	20	8/19/2013 12:37 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	2.9		USDA H60 METHO		Prep Date: 8/19/2013	Analyst: ML
			0.010	none	1	8/19/2013
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 8/15/2013	Analyst: RM
			17	µg/Kg-dry	1	8/16/2013 12:32 PM
Acenaphthylene	ND		35	µg/Kg-dry	1	8/16/2013 12:32 PM
Anthracene	ND		17	µg/Kg-dry	1	8/16/2013 12:32 PM
Benzo(a)anthracene	ND		20	µg/Kg-dry	1	8/16/2013 12:32 PM
Benzo(a)pyrene	ND		20	µg/Kg-dry	1	8/16/2013 12:32 PM
Benzo(b)fluoranthene	ND		21	µg/Kg-dry	1	8/16/2013 12:32 PM
Benzo(g,h,i)perylene	ND		32	µg/Kg-dry	1	8/16/2013 12:32 PM
Benzo(k)fluoranthene	ND		21	µg/Kg-dry	1	8/16/2013 12:32 PM
Chrysene	ND		17	µg/Kg-dry	1	8/16/2013 12:32 PM
Dibenzo(a,h)anthracene	ND		21	µg/Kg-dry	1	8/16/2013 12:32 PM
Fluoranthene	ND		17	µg/Kg-dry	1	8/16/2013 12:32 PM

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

ALS Group USA, Corp

Date: 20-Aug-13

Client: HRL Compliance Solutions
Project: Caerus Parachute Creek 6 8/14/13
Sample ID: East Wall 14'
Collection Date: 8/14/2013 10:15 AM

Work Order: 1308566
Lab ID: 1308566-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		17	µg/Kg-dry	1	8/16/2013 12:32 PM
Indeno(1,2,3-cd)pyrene	ND		23	µg/Kg-dry	1	8/16/2013 12:32 PM
Naphthalene	ND		17	µg/Kg-dry	1	8/16/2013 12:32 PM
Pyrene	ND		17	µg/Kg-dry	1	8/16/2013 12:32 PM
Surr: 2-Fluorobiphenyl	67.0		12-100	%REC	1	8/16/2013 12:32 PM
Surr: 4-Terphenyl-d14	86.9		25-137	%REC	1	8/16/2013 12:32 PM
Surr: Nitrobenzene-d5	62.3		37-107	%REC	1	8/16/2013 12:32 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 8/15/2013	Analyst: AK
Benzene	ND		35	µg/Kg-dry	1	8/15/2013 01:08 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	8/15/2013 01:08 PM
m,p-Xylene	ND		70	µg/Kg-dry	1	8/15/2013 01:08 PM
o-Xylene	ND		35	µg/Kg-dry	1	8/15/2013 01:08 PM
Toluene	ND		35	µg/Kg-dry	1	8/15/2013 01:08 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	8/15/2013 01:08 PM
Surr: 1,2-Dichloroethane-d4	101		70-130	%REC	1	8/15/2013 01:08 PM
Surr: 4-Bromofluorobenzene	103		70-130	%REC	1	8/15/2013 01:08 PM
Surr: Dibromofluoromethane	99.8		70-130	%REC	1	8/15/2013 01:08 PM
Surr: Toluene-d8	101		70-130	%REC	1	8/15/2013 01:08 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 8/19/2013	Analyst: JB
Electrical Conductivity @ Saturation	1.2		0.050	mmhos/cm @25	10	8/19/2013 11:15 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	11		0.59	mg/Kg-dry	1	8/16/2013 03:30 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 8/15/2013	Analyst: MB
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	8/16/2013 02:00 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	15		0.050	% of sample	1	8/15/2013 12:50 PM
PH			SW9045D		Prep Date: 8/16/2013	Analyst: JB
pH	8.1			s.u.	1	8/16/2013 10:30 AM

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

ALS Group USA, Corp

Date: 20-Aug-13

Client: HRL Compliance Solutions
Project: Caerus Parachute Creek 6 8/14/13
Sample ID: North Wall 14'
Collection Date: 8/14/2013 10:50 AM

Work Order: 1308566
Lab ID: 1308566-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	17		SW8015M		Prep Date: 8/15/2013	Analyst: RD
			4.8	mg/Kg-dry	1	8/15/2013 08:46 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>59.1</i>		<i>39-115</i>	<i>%REC</i>	<i>1</i>	8/15/2013 08:46 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep Date: 8/15/2013	Analyst: RD
			3.0	mg/Kg-dry	1	8/15/2013 03:32 PM
<i>Surr: Toluene-d8</i>	<i>112</i>		<i>50-150</i>	<i>%REC</i>	<i>1</i>	8/15/2013 03:32 PM
MERCURY BY CVAA						
Mercury	0.022		SW7471		Prep Date: 8/15/2013	Analyst: LR
			0.017	mg/Kg-dry	1	8/15/2013 04:16 PM
METALS BY ICP-MS						
Arsenic	9.5		SW6020A		Prep Date: 8/15/2013	Analyst: ML
			2.2	mg/Kg-dry	5	8/15/2013 06:52 PM
Barium	240		2.2	mg/Kg-dry	5	8/15/2013 06:52 PM
Cadmium	ND		0.88	mg/Kg-dry	5	8/15/2013 06:52 PM
Chromium	9.9		2.2	mg/Kg-dry	5	8/15/2013 06:52 PM
Copper	17		2.2	mg/Kg-dry	5	8/15/2013 06:52 PM
Lead	13		2.2	mg/Kg-dry	5	8/15/2013 06:52 PM
Nickel	17		2.2	mg/Kg-dry	5	8/15/2013 06:52 PM
Selenium	ND		2.2	mg/Kg-dry	5	8/15/2013 06:52 PM
Silver	ND		2.2	mg/Kg-dry	5	8/15/2013 06:52 PM
Zinc	66		4.4	mg/Kg-dry	5	8/15/2013 06:52 PM
SOLUBLE CATIONS FOR SAR						
Calcium	33		SW6020A		Prep Date: 8/19/2013	Analyst: ML
			10	mg/L	20	8/19/2013 12:51 PM
Magnesium	11		4.0	mg/L	20	8/19/2013 12:51 PM
Sodium	94		4.0	mg/L	20	8/19/2013 12:51 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	3.6		USDA H60 METHO		Prep Date: 8/19/2013	Analyst: ML
			0.010	none	1	8/19/2013
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 8/15/2013	Analyst: RM
			17	µg/Kg-dry	1	8/16/2013 12:52 PM
Acenaphthylene	ND		35	µg/Kg-dry	1	8/16/2013 12:52 PM
Anthracene	ND		17	µg/Kg-dry	1	8/16/2013 12:52 PM
Benzo(a)anthracene	ND		20	µg/Kg-dry	1	8/16/2013 12:52 PM
Benzo(a)pyrene	ND		20	µg/Kg-dry	1	8/16/2013 12:52 PM
Benzo(b)fluoranthene	ND		21	µg/Kg-dry	1	8/16/2013 12:52 PM
Benzo(g,h,i)perylene	ND		33	µg/Kg-dry	1	8/16/2013 12:52 PM
Benzo(k)fluoranthene	ND		21	µg/Kg-dry	1	8/16/2013 12:52 PM
Chrysene	ND		17	µg/Kg-dry	1	8/16/2013 12:52 PM
Dibenzo(a,h)anthracene	ND		21	µg/Kg-dry	1	8/16/2013 12:52 PM
Fluoranthene	ND		17	µg/Kg-dry	1	8/16/2013 12:52 PM

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

ALS Group USA, Corp

Date: 20-Aug-13

Client: HRL Compliance Solutions
Project: Caerus Parachute Creek 6 8/14/13
Sample ID: North Wall 14'
Collection Date: 8/14/2013 10:50 AM

Work Order: 1308566
Lab ID: 1308566-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		17	µg/Kg-dry	1	8/16/2013 12:52 PM
Indeno(1,2,3-cd)pyrene	ND		23	µg/Kg-dry	1	8/16/2013 12:52 PM
Naphthalene	ND		17	µg/Kg-dry	1	8/16/2013 12:52 PM
Pyrene	ND		17	µg/Kg-dry	1	8/16/2013 12:52 PM
Surr: 2-Fluorobiphenyl	75.4		12-100	%REC	1	8/16/2013 12:52 PM
Surr: 4-Terphenyl-d14	100		25-137	%REC	1	8/16/2013 12:52 PM
Surr: Nitrobenzene-d5	69.4		37-107	%REC	1	8/16/2013 12:52 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 8/15/2013	Analyst: AK
Benzene	ND		36	µg/Kg-dry	1	8/15/2013 01:32 PM
Ethylbenzene	ND		36	µg/Kg-dry	1	8/15/2013 01:32 PM
m,p-Xylene	ND		71	µg/Kg-dry	1	8/15/2013 01:32 PM
o-Xylene	ND		36	µg/Kg-dry	1	8/15/2013 01:32 PM
Toluene	ND		36	µg/Kg-dry	1	8/15/2013 01:32 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	8/15/2013 01:32 PM
Surr: 1,2-Dichloroethane-d4	98.4		70-130	%REC	1	8/15/2013 01:32 PM
Surr: 4-Bromofluorobenzene	100		70-130	%REC	1	8/15/2013 01:32 PM
Surr: Dibromofluoromethane	96.0		70-130	%REC	1	8/15/2013 01:32 PM
Surr: Toluene-d8	99.0		70-130	%REC	1	8/15/2013 01:32 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 8/19/2013	Analyst: JB
Electrical Conductivity @ Saturation	0.87		0.050	mmhos/cm @25	10	8/19/2013 11:15 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	9.6		0.59	mg/Kg-dry	1	8/16/2013 03:30 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 8/15/2013	Analyst: MB
Chromium, Hexavalent	ND		0.58	mg/Kg-dry	1	8/16/2013 02:00 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	16		0.050	% of sample	1	8/15/2013 12:50 PM
PH			SW9045D		Prep Date: 8/16/2013	Analyst: JB
pH	8.5			s.u.	1	8/16/2013 10:30 AM

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

ALS Group USA, Corp

Date: 20-Aug-13

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1308566

Project: Caerus Parachute Creek 6 8/14/13

Batch ID: **50568**

Instrument ID **GC8**

Method: **SW8015M**

MBLK		Sample ID: DBLKS1-50568-50568				Units: mg/Kg		Analysis Date: 8/15/2013 04:17 PM		
Client ID:		Run ID: GC8_130815A				SeqNo: 2416423		Prep Date: 8/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
<i>Surr: 4-Terphenyl-d14</i>	1.133	0	1.667	0	68	39-115	0			

LCS		Sample ID: DLCSS1-50568-50568				Units: mg/Kg		Analysis Date: 8/15/2013 04:47 PM		
Client ID:		Run ID: GC8_130815A				SeqNo: 2416424		Prep Date: 8/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	151.7	4.2	166.7	0	91	49-124	0			
<i>Surr: 4-Terphenyl-d14</i>	1.119	0	1.667	0	67.1	39-115	0			

MS		Sample ID: 1308553-06A MS				Units: mg/Kg		Analysis Date: 8/15/2013 04:17 PM		
Client ID:		Run ID: GC8_130815A				SeqNo: 2416425		Prep Date: 8/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	484.9	12	469.9	217.7	56.9	49-130	0			
<i>Surr: 4-Terphenyl-d14</i>	2.785	0	4.699	0	59.3	39-115	0			

MSD		Sample ID: 1308553-06A MSD				Units: mg/Kg		Analysis Date: 8/15/2013 04:47 PM		
Client ID:		Run ID: GC8_130815A				SeqNo: 2416426		Prep Date: 8/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	511.9	12	486.1	217.7	60.5	49-130	484.9	5.42	30	
<i>Surr: 4-Terphenyl-d14</i>	2.9	0	4.861	0	59.7	39-115	2.785	4.07	30	

The following samples were analyzed in this batch: | 1308566-01B | 1308566-02B |

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

Client: HRL Compliance Solutions
Work Order: 1308566
Project: Caerus Parachute Creek 6 8/14/13

QC BATCH REPORT

Batch ID: **50571** Instrument ID **GC9** Method: **SW8015**

MS		Sample ID: 1308523-01A MS				Units: µg/Kg		Analysis Date: 8/15/2013 06:05 PM		
Client ID:		Run ID: GC9_130815A				SeqNo: 2416471		Prep Date: 8/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	591400	2,500	500000	0	118	70-130	0			
<i>Surr: Toluene-d8</i>	<i>5644</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>113</i>	<i>50-150</i>	<i>0</i>			

MSD		Sample ID: 1308523-01A MSD				Units: µg/Kg		Analysis Date: 8/15/2013 06:30 PM		
Client ID:		Run ID: GC9_130815A				SeqNo: 2416472		Prep Date: 8/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	573800	2,500	500000	0	115	70-130	591400	3.01	30	
<i>Surr: Toluene-d8</i>	<i>5232</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>105</i>	<i>50-150</i>	<i>5644</i>	<i>7.59</i>	<i>30</i>	

The following samples were analyzed in this batch: 1308566-01A 1308566-02A

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

Client: HRL Compliance Solutions
Work Order: 1308566
Project: Caerus Parachute Creek 6 8/14/13

QC BATCH REPORT

Batch ID: **50562** Instrument ID **HG1** Method: **SW7471**

MBLK	Sample ID: MBLK-50562-50562					Units: mg/Kg		Analysis Date: 8/15/2013 03:43 PM		
Client ID:	Run ID: HG1_130815A				SeqNo: 2415288		Prep Date: 8/15/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.002083 0.020 J

LCS	Sample ID: LCS-50562-50562					Units: mg/Kg		Analysis Date: 8/15/2013 03:45 PM		
Client ID:	Run ID: HG1_130815A				SeqNo: 2415290		Prep Date: 8/15/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1759 0.020 0.1665 0 106 80-120 0

MS	Sample ID: 1308566-01BMS					Units: mg/Kg		Analysis Date: 8/15/2013 04:12 PM		
Client ID: East Wall 14'	Run ID: HG1_130815A				SeqNo: 2415308		Prep Date: 8/15/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.155 0.015 0.1244 0.02228 107 75-125 0

MSD	Sample ID: 1308566-01BMSD					Units: mg/Kg		Analysis Date: 8/15/2013 04:14 PM		
Client ID: East Wall 14'	Run ID: HG1_130815A				SeqNo: 2415318		Prep Date: 8/15/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1536 0.015 0.1229 0.02228 107 75-125 0.155 0.957 35

The following samples were analyzed in this batch:

1308566-01B 1308566-02B

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

Client: HRL Compliance Solutions
Work Order: 1308566
Project: Caerus Parachute Creek 6 8/14/13

QC BATCH REPORT

Batch ID: **50583** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-50583-50583				Units: mg/Kg		Analysis Date: 8/15/2013 06:34 PM		
Client ID:		Run ID: ICPMS1_130815A				SeqNo: 2415413		Prep Date: 8/15/2013		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	0.01188	0.25								J
Cadmium	ND	0.10								
Chromium	ND	0.25								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	0.03623	0.25								J
Silver	ND	0.25								
Zinc	0.04718	0.50								J

MBLK		Sample ID: MBLK-50583-50583				Units: mg/Kg		Analysis Date: 8/15/2013 06:34 PM		
Client ID:		Run ID: ICPMS1_130815B				SeqNo: 2415916		Prep Date: 8/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	ND	0.25								

LCS		Sample ID: LCS-50583-50583				Units: mg/Kg		Analysis Date: 8/15/2013 06:40 PM		
Client ID:		Run ID: ICPMS1_130815A				SeqNo: 2415414		Prep Date: 8/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.404	0.25	5	0	88.1	80-120	0			
Barium	4.889	0.25	5	0	97.8	80-120	0			
Cadmium	4.399	0.10	5	0	88	80-120	0			
Chromium	4.496	0.25	5	0	89.9	80-120	0			
Lead	4.692	0.25	5	0	93.8	80-120	0			
Nickel	4.685	0.25	5	0	93.7	80-120	0			
Selenium	4.243	0.25	5	0	84.9	80-120	0			
Silver	4.822	0.25	5	0	96.4	80-120	0			
Zinc	4.298	0.50	5	0	86	80-120	0			

LCS		Sample ID: LCS-50583-50583				Units: mg/Kg		Analysis Date: 8/15/2013 06:40 PM		
Client ID:		Run ID: ICPMS1_130815B				SeqNo: 2415917		Prep Date: 8/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	4.27	0.25	5	0	85.4	80-120	0			

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

Client: HRL Compliance Solutions
 Work Order: 1308566
 Project: Caerus Parachute Creek 6 8/14/13

QC BATCH REPORT

Batch ID: 50583 Instrument ID ICPMS1 Method: SW6020A

MS Sample ID: 1308553-06AMS				Units: mg/Kg			Analysis Date: 8/15/2013 07:04 PM			
Client ID:		Run ID: ICPMS1_130815A		SeqNo: 2415418		Prep Date: 8/15/2013		DF: 4		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	18.21	1.4	7.062	11.28	98	75-125	0			
Barium	142.4	1.4	7.062	132.7	137	75-125	0			SO
Cadmium	8.282	0.56	7.062	1.692	93.3	75-125	0			
Chromium	115	1.4	7.062	108.9	86	75-125	0			O
Lead	95.4	1.4	7.062	88.98	90.8	75-125	0			O
Nickel	28.7	1.4	7.062	21.67	99.5	75-125	0			
Selenium	7.847	1.4	7.062	1.45	90.6	75-125	0			
Silver	7.935	1.4	7.062	1.307	93.9	75-125	0			
Zinc	244.9	2.8	7.062	239.5	76.1	75-125	0			O

MS Sample ID: 1308553-06AMS				Units: mg/Kg			Analysis Date: 8/15/2013 07:04 PM			
Client ID:		Run ID: ICPMS1_130815B		SeqNo: 2415921		Prep Date: 8/15/2013		DF: 4		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	65.93	1.4	7.062	58.83	101	75-125	0			O

MSD Sample ID: 1308553-06AMSD				Units: mg/Kg			Analysis Date: 8/15/2013 07:28 PM			
Client ID:		Run ID: ICPMS1_130815A		SeqNo: 2415422		Prep Date: 8/15/2013		DF: 4		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	17.97	1.5	7.278	11.28	91.9	75-125	18.21	1.32	25	
Barium	144.6	1.5	7.278	132.7	163	75-125	142.4	1.53	25	SO
Cadmium	8.361	0.58	7.278	1.692	91.6	75-125	8.282	0.943	25	
Chromium	106.8	1.5	7.278	108.9	-28.7	75-125	115	7.36	25	SO
Lead	86.78	1.5	7.278	88.98	-30.2	75-125	95.4	9.45	25	SO
Nickel	28.06	1.5	7.278	21.67	87.8	75-125	28.7	2.25	25	
Selenium	8.151	1.5	7.278	1.45	92.1	75-125	7.847	3.8	25	
Silver	8.038	1.5	7.278	1.307	92.5	75-125	7.935	1.29	25	
Zinc	229.5	2.9	7.278	239.5	-137	75-125	244.9	6.48	25	SO

MSD Sample ID: 1308553-06AMSD				Units: mg/Kg			Analysis Date: 8/15/2013 07:28 PM			
Client ID:		Run ID: ICPMS1_130815B		SeqNo: 2415925		Prep Date: 8/15/2013		DF: 4		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	58.84	1.5	7.278	58.83	0.118	75-125	65.93	11.4	25	SO

The following samples were analyzed in this batch:

1308566-01B 1308566-02B

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

Client: HRL Compliance Solutions
Work Order: 1308566
Project: Caerus Parachute Creek 6 8/14/13

QC BATCH REPORT

Batch ID: **50619** Instrument ID **ICPMS1** Method: **SW6020A (Dissolve)**

DUP		Sample ID: 1308566-01CDUP				Units: mg/L		Analysis Date: 8/19/2013 12:45 PM		
Client ID: East Wall 14'		Run ID: ICPMS1_130819A				SeqNo: 2417530		Prep Date: 8/19/2013		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	69.82	10	0	0	0	0-0	66.8	4.42		
Magnesium	22.18	4.0	0	0	0	0-0	21.18	4.61		
Sodium	116.6	4.0	0	0	0	0-0	107.5	8.08		

DUP		Sample ID: 1308566-01CDUP				Units: none		Analysis Date: 8/19/2013		
Client ID: East Wall 14'		Run ID: SAR_130819A				SeqNo: 2417606		Prep Date: 8/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	3.113	0.010	0	0	0		2.936	5.84	50	

The following samples were analyzed in this batch: | 1308566-01C | 1308566-02C |

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

Client: HRL Compliance Solutions
Work Order: 1308566
Project: Caerus Parachute Creek 6 8/14/13

QC BATCH REPORT

Batch ID: **50567** Instrument ID **SVMS6** Method: **SW8270**

MBLK		Sample ID: SBLKS1-50567-50567				Units: µg/Kg		Analysis Date: 8/16/2013 10:55 AM		
Client ID:		Run ID: SVMS6_130816A				SeqNo: 2416343		Prep Date: 8/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	30								
Acenaphthylene	ND	30								
Anthracene	ND	30								
Benzo(a)anthracene	ND	30								
Benzo(a)pyrene	ND	30								
Benzo(b)fluoranthene	ND	30								
Benzo(g,h,i)perylene	ND	30								
Benzo(k)fluoranthene	ND	30								
Chrysene	ND	30								
Dibenzo(a,h)anthracene	ND	30								
Fluoranthene	ND	30								
Fluorene	ND	30								
Indeno(1,2,3-cd)pyrene	ND	30								
Naphthalene	ND	30								
Pyrene	ND	30								
<i>Surr: 2-Fluorobiphenyl</i>	1533	0	1667	0	92	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1916	0	1667	0	115	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1368	0	1667	0	82.1	37-107	0			

LCS		Sample ID: SLCSS1-50567-50567				Units: µg/Kg		Analysis Date: 8/16/2013 11:15 AM		
Client ID:		Run ID: SVMS6_130816A				SeqNo: 2416344		Prep Date: 8/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	557.7	30	666.7	0	83.6	45-110	0			
Acenaphthylene	598	30	666.7	0	89.7	45-105	0			
Anthracene	621.3	30	666.7	0	93.2	55-105	0			
Benzo(a)anthracene	618	30	666.7	0	92.7	50-110	0			
Benzo(a)pyrene	662.7	30	666.7	0	99.4	50-110	0			
Benzo(b)fluoranthene	706.7	30	666.7	0	106	45-115	0			
Benzo(g,h,i)perylene	715	30	666.7	0	107	40-125	0			
Benzo(k)fluoranthene	713.3	30	666.7	0	107	45-115	0			
Chrysene	664.7	30	666.7	0	99.7	55-110	0			
Dibenzo(a,h)anthracene	722.3	30	666.7	0	108	40-125	0			
Fluoranthene	630	30	666.7	0	94.5	55-115	0			
Fluorene	572.7	30	666.7	0	85.9	50-110	0			
Indeno(1,2,3-cd)pyrene	708.7	30	666.7	0	106	40-120	0			
Naphthalene	534.7	30	666.7	0	80.2	40-105	0			
Pyrene	701.7	30	666.7	0	105	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1437	0	1667	0	86.2	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1846	0	1667	0	111	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1330	0	1667	0	79.8	37-107	0			

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

Client: HRL Compliance Solutions
Work Order: 1308566
Project: Caerus Parachute Creek 6 8/14/13

QC BATCH REPORT

Batch ID: **50567** Instrument ID **SVMS6** Method: **SW8270**

MS				Units: µg/Kg			Analysis Date: 8/16/2013 11:34 AM			
Client ID:		Run ID: SVMS6_130816A		SeqNo: 2416345		Prep Date: 8/15/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1361	83	1846	0	73.7	45-110	0			
Acenaphthylene	1496	83	1846	163.7	72.2	45-105	0			
Anthracene	1717	83	1846	308.5	76.3	55-105	0			
Benzo(a)anthracene	2046	83	1846	1014	55.9	50-110	0			
Benzo(a)pyrene	2294	83	1846	1122	63.4	50-110	0			
Benzo(b)fluoranthene	2644	83	1846	1446	64.9	45-115	0			
Benzo(g,h,i)perylene	2766	83	1846	910.5	101	40-125	0			
Benzo(k)fluoranthene	2000	83	1846	497.8	81.4	45-115	0			
Chrysene	2258	83	1846	1082	63.7	55-110	0			
Dibenzo(a,h)anthracene	2166	83	1846	254.6	104	40-125	0			
Fluoranthene	2596	83	1846	1878	38.9	55-115	0			S
Fluorene	1468	83	1846	79.5	75.2	50-110	0			
Indeno(1,2,3-cd)pyrene	2653	83	1846	1039	87.4	40-120	0			
Naphthalene	971	83	1846	0	52.6	40-105	0			
Pyrene	2634	83	1846	1645	53.6	45-125	0			
Surr: 2-Fluorobiphenyl	3016	0	4615	0	65.4	12-100	0			
Surr: 4-Terphenyl-d14	4447	0	4615	0	96.4	25-137	0			
Surr: Nitrobenzene-d5	2373	0	4615	0	51.4	37-107	0			

MSD				Units: µg/Kg			Analysis Date: 8/16/2013 11:53 AM			
Client ID:		Run ID: SVMS6_130816A		SeqNo: 2416346		Prep Date: 8/15/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1409	84	1867	0	75.5	45-110	1361	3.53	30	
Acenaphthylene	1523	84	1867	163.7	72.8	45-105	1496	1.79	30	
Anthracene	1758	84	1867	308.5	77.7	55-105	1717	2.4	30	
Benzo(a)anthracene	2095	84	1867	1014	57.9	50-110	2046	2.37	30	
Benzo(a)pyrene	2312	84	1867	1122	63.7	50-110	2294	0.791	30	
Benzo(b)fluoranthene	2659	84	1867	1446	65	45-115	2644	0.589	30	
Benzo(g,h,i)perylene	2709	84	1867	910.5	96.3	40-125	2766	2.11	30	
Benzo(k)fluoranthene	2015	84	1867	497.8	81.3	45-115	2000	0.744	30	
Chrysene	2298	84	1867	1082	65.1	55-110	2258	1.77	30	
Dibenzo(a,h)anthracene	2152	84	1867	254.6	102	40-125	2166	0.649	30	
Fluoranthene	2662	84	1867	1878	42	55-115	2596	2.53	30	S
Fluorene	1534	84	1867	79.5	77.9	50-110	1468	4.45	30	
Indeno(1,2,3-cd)pyrene	2632	84	1867	1039	85.3	40-120	2653	0.783	30	
Naphthalene	1109	84	1867	0	59.4	40-105	971	13.3	30	
Pyrene	2564	84	1867	1645	49.2	45-125	2634	2.71	30	
Surr: 2-Fluorobiphenyl	3214	0	4667	0	68.9	12-100	3016	6.33	40	
Surr: 4-Terphenyl-d14	4429	0	4667	0	94.9	25-137	4447	0.413	40	
Surr: Nitrobenzene-d5	2801	0	4667	0	60	37-107	2373	16.5	40	

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

Client: HRL Compliance Solutions
Work Order: 1308566
Project: Caerus Parachute Creek 6 8/14/13

QC BATCH REPORT

Batch ID: **50567** Instrument ID **SVMS6** Method: **SW8270**

The following samples were analyzed in this batch:

1308566-01B	1308566-02B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1308566
Project: Caerus Parachute Creek 6 8/14/13

QC BATCH REPORT

Batch ID: **50571** Instrument ID **VMS5** Method: **SW8260B**

MBLK		Sample ID: MBLK-50571-50571				Units: µg/Kg		Analysis Date: 8/15/2013 12:14 PM		
Client ID:		Run ID: VMS5_130815A				SeqNo: 2415631		Prep Date: 8/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Benzene	ND	30								
Ethylbenzene	ND	30								
GRO (C6-C10)	ND	2,500								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
<i>Surr: 1,2-Dichloroethane-d4</i>										
	1020	0	1000	0	102	70-130		0		
<i>Surr: 4-Bromofluorobenzene</i>										
	992.5	0	1000	0	99.2	70-130		0		
<i>Surr: Dibromofluoromethane</i>										
	963	0	1000	0	96.3	70-130		0		
<i>Surr: Toluene-d8</i>										
	1002	0	1000	0	100	70-130		0		

LCS		Sample ID: LCS-50571-50571				Units: µg/Kg		Analysis Date: 8/15/2013 10:40 AM		
Client ID:		Run ID: VMS5_130815A				SeqNo: 2415629		Prep Date: 8/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Benzene	1048	30	1000	0	105	75-125		0		
Ethylbenzene	1120	30	1000	0	112	75-125		0		
m,p-Xylene	2260	60	2000	0	113	80-125		0		
o-Xylene	1104	30	1000	0	110	75-125		0		
Toluene	1036	30	1000	0	104	70-125		0		
Xylenes, Total	3365	90	3000	0	112	75-125		0		
<i>Surr: 1,2-Dichloroethane-d4</i>										
	1020	0	1000	0	102	70-130		0		
<i>Surr: 4-Bromofluorobenzene</i>										
	990	0	1000	0	99	70-130		0		
<i>Surr: Dibromofluoromethane</i>										
	977.5	0	1000	0	97.8	70-130		0		
<i>Surr: Toluene-d8</i>										
	983.5	0	1000	0	98.4	70-130		0		

MS		Sample ID: 1308523-01A MS				Units: µg/Kg		Analysis Date: 8/15/2013 06:05 PM		
Client ID:		Run ID: VMS7_130815A				SeqNo: 2415701		Prep Date: 8/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Benzene	935.5	30	1000	0	93.6	75-125		0		
Ethylbenzene	930.5	30	1000	0	93	75-125		0		
m,p-Xylene	1868	60	2000	24.5	92.2	80-125		0		
o-Xylene	945	30	1000	0	94.5	75-125		0		
Toluene	898	30	1000	0	89.8	70-125		0		
Xylenes, Total	2812	90	3000	24	93	75-125		0		
<i>Surr: 1,2-Dichloroethane-d4</i>										
	997.5	0	1000	0	99.8	70-130		0		
<i>Surr: 4-Bromofluorobenzene</i>										
	1029	0	1000	0	103	70-130		0		
<i>Surr: Dibromofluoromethane</i>										
	983.5	0	1000	0	98.4	70-130		0		
<i>Surr: Toluene-d8</i>										
	960	0	1000	0	96	70-130		0		

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

Client: HRL Compliance Solutions
Work Order: 1308566
Project: Caerus Parachute Creek 6 8/14/13

QC BATCH REPORT

Batch ID: **50571** Instrument ID **VMS5** Method: **SW8260B**

MSD		Sample ID: 1308523-01A MSD				Units: µg/Kg		Analysis Date: 8/15/2013 06:29 PM		
Client ID:		Run ID: VMS7_130815A				SeqNo: 2415702		Prep Date: 8/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	957.5	30	1000	0	95.8	75-125	935.5	2.32	30	
Ethylbenzene	986.5	30	1000	0	98.6	75-125	930.5	5.84	30	
m,p-Xylene	1914	60	2000	24.5	94.4	80-125	1868	2.43	30	
o-Xylene	1000	30	1000	0	100	75-125	945	5.71	30	
Toluene	930	30	1000	0	93	70-125	898	3.5	30	
Xylenes, Total	2914	90	3000	24	96.3	75-125	2812	3.54	30	
Surr: 1,2-Dichloroethane-d4	1002	0	1000	0	100	70-130	997.5	0.4	30	
Surr: 4-Bromofluorobenzene	1014	0	1000	0	101	70-130	1029	1.47	30	
Surr: Dibromofluoromethane	991	0	1000	0	99.1	70-130	983.5	0.76	30	
Surr: Toluene-d8	977	0	1000	0	97.7	70-130	960	1.76	30	

The following samples were analyzed in this batch: 1308566-01A 1308566-02A

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

Client: HRL Compliance Solutions
Work Order: 1308566
Project: Caerus Parachute Creek 6 8/14/13

QC BATCH REPORT

Batch ID: **50608** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-50608-50608				Units: s.u.		Analysis Date: 8/16/2013 10:30 AM			
Client ID:		Run ID: WETCHEM_130816A				SeqNo: 2415864		Prep Date: 8/16/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	4.31	0	4.4	0	98	90-110	0				

DUP				Sample ID: 1308566-01B DUP				Units: s.u.			Analysis Date: 8/16/2013 10:30 AM		
Client ID: East Wall 14'				Run ID: WETCHEM_130816A				SeqNo: 2415866		Prep Date: 8/16/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH	8.13	0	0	0	0	0-0	8.07	0.741	20				

The following samples were analyzed in this batch:

1308566-01B 1308566-02B

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

Client: HRL Compliance Solutions
Work Order: 1308566
Project: Caerus Parachute Creek 6 8/14/13

QC BATCH REPORT

Batch ID: **50615** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-50615-50615				Units: mg/Kg		Analysis Date: 8/16/2013 02:00 PM		
Client ID:		Run ID: WETCHEM_130816F				SeqNo: 2416342		Prep Date: 8/15/2013		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-50615-50615				Units: mg/Kg		Analysis Date: 8/16/2013 02:00 PM		
Client ID:		Run ID: WETCHEM_130816F				SeqNo: 2416341		Prep Date: 8/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.872 0.50 2 0 93.6 80-120 0

MS		Sample ID: 1308566-02B MS				Units: mg/Kg		Analysis Date: 8/16/2013 02:00 PM		
Client ID: North Wall 14'		Run ID: WETCHEM_130816F				SeqNo: 2416339		Prep Date: 8/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.791 0.49 1.969 0.2402 78.8 75-125 0

MSD		Sample ID: 1308566-02B MSD				Units: mg/Kg		Analysis Date: 8/16/2013 02:00 PM		
Client ID: North Wall 14'		Run ID: WETCHEM_130816F				SeqNo: 2416340		Prep Date: 8/15/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.758 0.50 1.984 0.2402 76.5 75-125 1.791 1.88 20

The following samples were analyzed in this batch:

1308566-01B 1308566-02B

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

Client: HRL Compliance Solutions
Work Order: 1308566
Project: Caerus Parachute Creek 6 8/14/13

QC BATCH REPORT

Batch ID: **50619** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1308566-01C DUP				Units: mmhos/cm @25°C		Analysis Date: 8/19/2013 11:15 AM		
Client ID: East Wall 14'		Run ID: WETCHEM_130819C				SeqNo: 2417358		Prep Date: 8/19/2013		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.275	0.050	0	0	0		1.202	5.89	50	

The following samples were analyzed in this batch:

1308566-01C	1308566-02C
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1308566
Project: Caerus Parachute Creek 6 8/14/13

QC BATCH REPORT

Batch ID: **R125226** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R125226				Units: % of sample		Analysis Date: 8/15/2013 12:50 PM		
Client ID:		Run ID: MOIST_130815B				SeqNo: 2416151		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.04	0.050								J

LCS	Sample ID: LCS-R125226					Units: % of sample		Analysis Date: 8/15/2013 12:50 PM		
Client ID:		Run ID: MOIST_130815B			SeqNo: 2416150		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: 1308538-01A DUP				Units: % of sample			Analysis Date: 8/15/2013 12:50 PM			
Client ID:				Run ID: MOIST_130815B				SeqNo: 2416137			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Moisture	4.29	0.050	0	0	0	0-0	3.05	33.8	20	R				

DUP		Sample ID: 1308558-05A DUP				Units: % of sample		Analysis Date: 8/15/2013 12:50 PM		
Client ID:		Run ID: MOIST_130815B		SeqNo: 2416140		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	49.01	0.050	0	0	0	0-0	51.45	4.86	20	

The following samples were analyzed in this batch:

1308566-01B 1308566-02B

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

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **15-Aug-13 10:00**

Work Order: **1308566**

Received by: **KRW**

Checklist completed by Keith Wurenga 15-Aug-13
eSignature Date

Reviewed by: Ann Preston 15-Aug-13
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 type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>1.4 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>8/15/2013 10:57:48 AM</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: (970) 424-4749
Lab Hub, LLC

Origin ID: RILA



Ship Date: 14AUG13
ActWgt: 60.0 LB
CAD: 10392349G/NET3430

Dims: 25 X 14 X 15 IN

127 E First Street

PARACHUTE, CO 81635

SHIP TO: (616) 399-6070

BILL RECIPIENT

Sample recieving
ALS Holland
3352 128TH AVE

HOLLAND, MI 49424

Delivery Address Bar Code



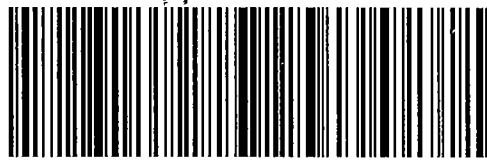
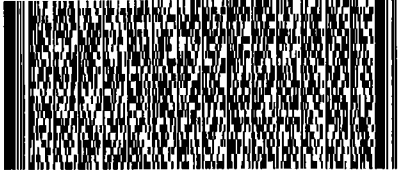
Ref # 1001-081413-1
Invoice #
PO #
Dept #

THU - 15 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 7964 6780 3475
0201

XX GRRA

49424
MI-US
GRR



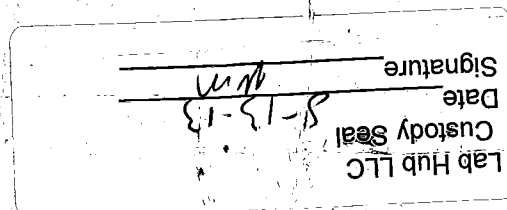
51AG10989/1AGE

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22-Aug-2013

Herman Lucero
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Caerus Parachute Creek 6 Tank Removal 8/16/13**

Work Order: **1308663**

Dear Herman,

ALS Environmental received 1 sample on 17-Aug-2013 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 23.

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

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

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Client: HRL Compliance Solutions
Project: Caerus Parachute Creek 6 Tank Removal 8/16/13
Work Order: 1308663

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>
1308663-01	Footprint 32'	Soil		8/16/2013 12:45	8/17/2013 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Caerus Parachute Creek 6 Tank Removal 8/16/13
Work Order: 1308663

Case Narrative

Batch 50644 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 50645 MS/MSD data for Mercury is not related to this project's samples. No data requires qualification.

Client: HRL Compliance Solutions
Project: Caerus Parachute Creek 6 Tank Removal 8/16/13
WorkOrder: 1308663

**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

<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
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: 22-Aug-13

Client: HRL Compliance Solutions

Project: Caerus Parachute Creek 6 Tank Removal 8/16/13

Work Order: 1308663

Sample ID: Footprint 32'

Lab ID: 1308663-01

Collection Date: 8/16/2013 12:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	31		SW8015M		Prep Date: 8/19/2013	Analyst: CW
			4.8	mg/Kg-dry	1	8/19/2013 05:51 PM
Surr: 4-Terphenyl-d14	58.6		39-115	%REC	1	8/19/2013 05:51 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep Date: 8/19/2013	Analyst: CW
			2.9	mg/Kg-dry	1	8/19/2013 07:07 PM
Surr: Toluene-d8	123		50-150	%REC	1	8/19/2013 07:07 PM
MERCURY BY CVAA						
Mercury	0.032		SW7471		Prep Date: 8/19/2013	Analyst: LR
			0.017	mg/Kg-dry	1	8/19/2013 04:40 PM
METALS BY ICP-MS						
Arsenic	2.0		SW6020A		Prep Date: 8/19/2013	Analyst: ML
			0.41	mg/Kg-dry	1	8/19/2013 03:51 PM
Barium	47		0.41	mg/Kg-dry	1	8/19/2013 03:51 PM
Cadmium	ND		0.16	mg/Kg-dry	1	8/19/2013 03:51 PM
Chromium	2.2		0.41	mg/Kg-dry	1	8/19/2013 03:51 PM
Copper	3.0		0.41	mg/Kg-dry	1	8/19/2013 03:51 PM
Lead	2.5		0.41	mg/Kg-dry	1	8/19/2013 03:51 PM
Nickel	3.2		0.41	mg/Kg-dry	1	8/19/2013 03:51 PM
Selenium	ND		0.41	mg/Kg-dry	1	8/19/2013 03:51 PM
Silver	ND		0.41	mg/Kg-dry	1	8/19/2013 03:51 PM
Zinc	12		0.82	mg/Kg-dry	1	8/19/2013 03:51 PM
SOLUBLE CATIONS FOR SAR						
Calcium	410		SW6020A		Prep Date: 8/21/2013	Analyst: RH
			10	mg/L	20	8/21/2013 05:10 PM
Magnesium	110		4.0	mg/L	20	8/21/2013 05:10 PM
Sodium	500		4.0	mg/L	20	8/21/2013 05:10 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	5.6		USDA H60 METHO		Prep Date: 8/21/2013	Analyst: RH
			0.010	none	1	8/21/2013
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 8/19/2013	Analyst: RM
			17	µg/Kg-dry	1	8/20/2013 01:35 PM
Acenaphthylene	ND		35	µg/Kg-dry	1	8/20/2013 01:35 PM
Anthracene	ND		17	µg/Kg-dry	1	8/20/2013 01:35 PM
Benzo(a)anthracene	ND		20	µg/Kg-dry	1	8/20/2013 01:35 PM
Benzo(a)pyrene	ND		20	µg/Kg-dry	1	8/20/2013 01:35 PM
Benzo(b)fluoranthene	ND		21	µg/Kg-dry	1	8/20/2013 01:35 PM
Benzo(g,h,i)perylene	ND		32	µg/Kg-dry	1	8/20/2013 01:35 PM
Benzo(k)fluoranthene	ND		21	µg/Kg-dry	1	8/20/2013 01:35 PM
Chrysene	ND		17	µg/Kg-dry	1	8/20/2013 01:35 PM
Dibenzo(a,h)anthracene	ND		21	µg/Kg-dry	1	8/20/2013 01:35 PM
Fluoranthene	ND		17	µg/Kg-dry	1	8/20/2013 01:35 PM

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

ALS Group USA, Corp

Date: 22-Aug-13

Client: HRL Compliance Solutions

Project: Caerus Parachute Creek 6 Tank Removal 8/16/13

Work Order: 1308663

Sample ID: Footprint 32'

Lab ID: 1308663-01

Collection Date: 8/16/2013 12:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		17	µg/Kg-dry	1	8/20/2013 01:35 PM
Indeno(1,2,3-cd)pyrene	ND		23	µg/Kg-dry	1	8/20/2013 01:35 PM
Naphthalene	ND		17	µg/Kg-dry	1	8/20/2013 01:35 PM
Pyrene	ND		17	µg/Kg-dry	1	8/20/2013 01:35 PM
Surr: 2-Fluorobiphenyl	74.7		12-100	%REC	1	8/20/2013 01:35 PM
Surr: 4-Terphenyl-d14	110		25-137	%REC	1	8/20/2013 01:35 PM
Surr: Nitrobenzene-d5	63.1		37-107	%REC	1	8/20/2013 01:35 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep Date: 8/19/2013	Analyst: RS
Benzene	ND		35	µg/Kg-dry	1	8/19/2013 01:29 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	8/19/2013 01:29 PM
m,p-Xylene	ND		70	µg/Kg-dry	1	8/19/2013 01:29 PM
o-Xylene	ND		35	µg/Kg-dry	1	8/19/2013 01:29 PM
Toluene	ND		35	µg/Kg-dry	1	8/19/2013 01:29 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	8/19/2013 01:29 PM
Surr: 1,2-Dichloroethane-d4	110		70-130	%REC	1	8/19/2013 01:29 PM
Surr: 4-Bromofluorobenzene	105		70-130	%REC	1	8/19/2013 01:29 PM
Surr: Dibromofluoromethane	107		70-130	%REC	1	8/19/2013 01:29 PM
Surr: Toluene-d8	106		70-130	%REC	1	8/19/2013 01:29 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 8/21/2013	Analyst: JB
Electrical Conductivity @ Saturation	5.7		0.025	mmhos/cm @25	5	8/21/2013 01:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	2.2		0.58	mg/Kg-dry	1	8/20/2013 03:30 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 8/19/2013	Analyst: MB
Chromium, Hexavalent	ND		0.58	mg/Kg-dry	1	8/20/2013 01:15 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	14		0.050	% of sample	1	8/19/2013 11:45 AM
PH			SW9045D		Prep Date: 8/19/2013	Analyst: JB
pH	7.6			s.u.	1	8/19/2013 03:30 PM

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

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1308663

Project: Caerus Parachute Creek 6 Tank Removal 8/16/13

Batch ID: 50635

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-50635-50635				Units: mg/Kg		Analysis Date: 8/19/2013 03:50 PM		
Client ID:		Run ID: GC8_130819A				SeqNo: 2418506		Prep Date: 8/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
Surr: 4-Terphenyl-d14	0.8227	0	1.667	0	49.4	39-115	0			

LCS		Sample ID: DLCSS1-50635-50635				Units: mg/Kg		Analysis Date: 8/19/2013 04:20 PM		
Client ID:		Run ID: GC8_130819A				SeqNo: 2418507		Prep Date: 8/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	151.5	4.2	166.7	0	90.9	49-124	0			
Surr: 4-Terphenyl-d14	1.023	0	1.667	0	61.4	39-115	0			

MS		Sample ID: 1308663-01B MS				Units: mg/Kg		Analysis Date: 8/19/2013 04:51 PM		
Client ID: Footprint 32'		Run ID: GC8_130819A				SeqNo: 2418508		Prep Date: 8/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	298.6	8.2	326.9	26.31	83.3	49-130	0			
Surr: 4-Terphenyl-d14	2.033	0	3.269	0	62.2	39-115	0			

MSD		Sample ID: 1308663-01B MSD				Units: mg/Kg		Analysis Date: 8/19/2013 05:21 PM		
Client ID: Footprint 32'		Run ID: GC8_130819A				SeqNo: 2418509		Prep Date: 8/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	313	8.2	327.9	26.31	87.4	49-130	298.6	4.72	30	
Surr: 4-Terphenyl-d14	2.116	0	3.279	0	64.5	39-115	2.033	4.01	30	

The following samples were analyzed in this batch: 1308663-01B

Client: HRL Compliance Solutions
Work Order: 1308663
Project: Caerus Parachute Creek 6 Tank Removal 8/16/13

QC BATCH REPORT

Batch ID: **50645** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-50645-50645				Units: mg/Kg		Analysis Date: 8/19/2013 04:51 PM		
Client ID:		Run ID: HG1_130819A				SeqNo: 2418122		Prep Date: 8/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00175	0.020								J

LCS		Sample ID: LCS-50645-50645				Units: mg/Kg		Analysis Date: 8/19/2013 04:53 PM		
Client ID:		Run ID: HG1_130819A				SeqNo: 2418123		Prep Date: 8/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1912	0.020	0.1665	0	115	80-120	0			

MS		Sample ID: 1308662-01BMS				Units: mg/Kg		Analysis Date: 8/19/2013 05:07 PM		
Client ID:		Run ID: HG1_130819A				SeqNo: 2418149		Prep Date: 8/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1783	0.014	0.1163	0.02693	130	75-125	0			S

MSD		Sample ID: 1308662-01BMSD				Units: mg/Kg		Analysis Date: 8/19/2013 05:09 PM		
Client ID:		Run ID: HG1_130819A				SeqNo: 2418150		Prep Date: 8/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1782	0.014	0.1191	0.02693	127	75-125	0.1783	0.089	35	S

The following samples were analyzed in this batch:

1308663-01B

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

Client: HRL Compliance Solutions
Work Order: 1308663
Project: Caerus Parachute Creek 6 Tank Removal 8/16/13

QC BATCH REPORT

Batch ID: **50644** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-50644-50644				Units: mg/Kg		Analysis Date: 8/19/2013 03:27 PM		
Client ID:		Run ID: ICPMS1_130819A				SeqNo: 2418240		Prep Date: 8/19/2013		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	ND	0.25								
Cadmium	ND	0.10								
Chromium	0.06835	0.25								J
Copper	ND	0.25								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	0.04806	0.25								J
Silver	ND	0.25								
Zinc	ND	0.50								

LCS		Sample ID: LCS-50644-50644				Units: mg/Kg		Analysis Date: 8/19/2013 03:33 PM		
Client ID:		Run ID: ICPMS1_130819A				SeqNo: 2418241		Prep Date: 8/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.397	0.25	5	0	87.9	80-120	0			
Barium	4.779	0.25	5	0	95.6	80-120	0			
Cadmium	4.65	0.10	5	0	93	80-120	0			
Chromium	4.704	0.25	5	0	94.1	80-120	0			
Copper	4.632	0.25	5	0	92.6	80-120	0			
Lead	4.796	0.25	5	0	95.9	80-120	0			
Nickel	4.636	0.25	5	0	92.7	80-120	0			
Selenium	4.289	0.25	5	0	85.8	80-120	0			
Silver	4.726	0.25	5	0	94.5	80-120	0			
Zinc	4.258	0.50	5	0	85.2	80-120	0			

MS		Sample ID: 1308678-04AMS				Units: mg/Kg		Analysis Date: 8/19/2013 04:04 PM		
Client ID:		Run ID: ICPMS1_130819A				SeqNo: 2418246		Prep Date: 8/19/2013		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.868	1.8	7.342	2.332	103	75-125	0			
Barium	42.69	1.8	7.342	34.68	109	75-125	0			O
Cadmium	7.485	0.73	7.342	0.1434	100	75-125	0			
Chromium	11.83	1.8	7.342	3.764	110	75-125	0			
Copper	9.567	1.8	7.342	2.35	98.3	75-125	0			
Lead	16.66	1.8	7.342	9.366	99.4	75-125	0			
Nickel	10.01	1.8	7.342	2.596	101	75-125	0			
Selenium	7.599	1.8	7.342	0.5536	96	75-125	0			
Silver	7.004	1.8	7.342	0	95.4	75-125	0			
Zinc	41.37	3.7	7.342	25.95	210	75-125	0			S

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

Client: HRL Compliance Solutions
Work Order: 1308663
Project: Caerus Parachute Creek 6 Tank Removal 8/16/13

QC BATCH REPORT

Batch ID: **50644** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1308678-04AMSD				Units: mg/Kg		Analysis Date: 8/19/2013 04:10 PM		
Client ID:		Run ID: ICPMS1_130819A				SeqNo: 2418251		Prep Date: 8/19/2013		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.02	1.8	7.102	2.332	108	75-125	9.868	1.54	25	
Barium	43.04	1.8	7.102	34.68	118	75-125	42.69	0.805	25	O
Cadmium	7.173	0.71	7.102	0.1434	99	75-125	7.485	4.26	25	
Chromium	12.11	1.8	7.102	3.764	117	75-125	11.83	2.32	25	
Copper	9.46	1.8	7.102	2.35	100	75-125	9.567	1.12	25	
Lead	16.38	1.8	7.102	9.366	98.7	75-125	16.66	1.73	25	
Nickel	10.2	1.8	7.102	2.596	107	75-125	10.01	1.82	25	
Selenium	7.141	1.8	7.102	0.5536	92.8	75-125	7.599	6.21	25	
Silver	6.737	1.8	7.102	0	94.8	75-125	7.004	3.9	25	
Zinc	46.02	3.6	7.102	25.95	283	75-125	41.37	10.6	25	S

The following samples were analyzed in this batch: 1308663-01B

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

Client: HRL Compliance Solutions
Work Order: 1308663
Project: Caerus Parachute Creek 6 Tank Removal 8/16/13

QC BATCH REPORT

Batch ID: **50653** Instrument ID **SAR** Method: **USDA H60 Method**

DUP				Sample ID: 1308662-01CDUP				Units: none			Analysis Date: 8/21/2013			
Client ID:				Run ID: SAR_130821A				SeqNo: 2421251			Prep Date: 8/21/2013		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Sodium Adsorption Ratio		14.24	0.010	0	0	0		14.92	4.69	50				

The following samples were analyzed in this batch:

1308663-01C

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

Client: HRL Compliance Solutions
Work Order: 1308663
Project: Caerus Parachute Creek 6 Tank Removal 8/16/13

QC BATCH REPORT

Batch ID: **50634** Instrument ID **SVMS6** Method: **SW8270**

MBLK		Sample ID: SBLKS1-50634-50634				Units: µg/Kg		Analysis Date: 8/20/2013 12:18 PM		
Client ID:		Run ID: SVMS6_130820A				SeqNo: 2419131		Prep Date: 8/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	30								
Acenaphthylene	ND	30								
Anthracene	ND	30								
Benzo(a)anthracene	ND	30								
Benzo(a)pyrene	ND	30								
Benzo(b)fluoranthene	ND	30								
Benzo(g,h,i)perylene	ND	30								
Benzo(k)fluoranthene	ND	30								
Chrysene	ND	30								
Dibenzo(a,h)anthracene	ND	30								
Fluoranthene	ND	30								
Fluorene	ND	30								
Indeno(1,2,3-cd)pyrene	ND	30								
Naphthalene	ND	30								
Pyrene	ND	30								
<i>Surr: 2-Fluorobiphenyl</i>	<i>1474</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>88.4</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>1817</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>109</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>1338</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>80.3</i>	<i>37-107</i>	<i>0</i>			

LCS		Sample ID: SLCSS1-50634-50634				Units: µg/Kg		Analysis Date: 8/20/2013 12:37 PM		
Client ID:		Run ID: SVMS6_130820A				SeqNo: 2419132		Prep Date: 8/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	541	30	666.7	0	81.1	45-110	0			
Acenaphthylene	570.3	30	666.7	0	85.5	45-105	0			
Anthracene	598.7	30	666.7	0	89.8	55-105	0			
Benzo(a)anthracene	605.3	30	666.7	0	90.8	50-110	0			
Benzo(a)pyrene	643.3	30	666.7	0	96.5	50-110	0			
Benzo(b)fluoranthene	685.7	30	666.7	0	103	45-115	0			
Benzo(g,h,i)perylene	683.7	30	666.7	0	103	40-125	0			
Benzo(k)fluoranthene	683.3	30	666.7	0	102	45-115	0			
Chrysene	641.7	30	666.7	0	96.2	55-110	0			
Dibenzo(a,h)anthracene	725.3	30	666.7	0	109	40-125	0			
Fluoranthene	613.7	30	666.7	0	92	55-115	0			
Fluorene	544.3	30	666.7	0	81.6	50-110	0			
Indeno(1,2,3-cd)pyrene	688	30	666.7	0	103	40-120	0			
Naphthalene	533.7	30	666.7	0	80	40-105	0			
Pyrene	674	30	666.7	0	101	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	<i>1411</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>84.7</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>1777</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>107</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>1314</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>78.8</i>	<i>37-107</i>	<i>0</i>			

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

Client: HRL Compliance Solutions
Work Order: 1308663
Project: Caerus Parachute Creek 6 Tank Removal 8/16/13

QC BATCH REPORT

Batch ID: **50634** Instrument ID **SVMS6** Method: **SW8270**

MS				Units: µg/Kg			Analysis Date: 8/20/2013 12:56 PM			
Sample ID: 1308663-01B MS		Run ID: SVMS6_130820A		SeqNo: 2419133		Prep Date: 8/19/2013		DF: 1		
Client ID: Footprint 32'										
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1012	60	1332	0	76	45-110	0			
Acenaphthylene	1053	60	1332	0	79	45-105	0			
Anthracene	1188	60	1332	0	89.2	55-105	0			
Benzo(a)anthracene	1176	60	1332	0	88.3	50-110	0			
Benzo(a)pyrene	1271	60	1332	0	95.4	50-110	0			
Benzo(b)fluoranthene	1367	60	1332	0	103	45-115	0			
Benzo(g,h,i)perylene	1335	60	1332	0	100	40-125	0			
Benzo(k)fluoranthene	1337	60	1332	0	100	45-115	0			
Chrysene	1235	60	1332	0	92.7	55-110	0			
Dibenzo(a,h)anthracene	1371	60	1332	0	103	40-125	0			
Fluoranthene	1204	60	1332	0	90.4	55-115	0			
Fluorene	1063	60	1332	0	79.8	50-110	0			
Indeno(1,2,3-cd)pyrene	1323	60	1332	0	99.3	40-120	0			
Naphthalene	887.8	60	1332	0	66.6	40-105	0			
Pyrene	1334	60	1332	0	100	45-125	0			
Surr: 2-Fluorobiphenyl	2481	0	3330	0	74.5	12-100	0			
Surr: 4-Terphenyl-d14	3517	0	3330	0	106	25-137	0			
Surr: Nitrobenzene-d5	2233	0	3330	0	67	37-107	0			

MSD				Units: µg/Kg			Analysis Date: 8/20/2013 01:16 PM			
Sample ID: 1308663-01B MSD		Run ID: SVMS6_130820A		SeqNo: 2419134		Prep Date: 8/19/2013		DF: 1		
Client ID: Footprint 32'										
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1019	57	1273	0	80	45-110	1012	0.673	30	
Acenaphthylene	1047	57	1273	0	82.2	45-105	1053	0.55	30	
Anthracene	1158	57	1273	0	90.9	55-105	1188	2.58	30	
Benzo(a)anthracene	1150	57	1273	0	90.3	50-110	1176	2.22	30	
Benzo(a)pyrene	1236	57	1273	0	97.1	50-110	1271	2.75	30	
Benzo(b)fluoranthene	1339	57	1273	0	105	45-115	1367	2.06	30	
Benzo(g,h,i)perylene	1287	57	1273	0	101	40-125	1335	3.67	30	
Benzo(k)fluoranthene	1293	57	1273	0	102	45-115	1337	3.33	30	
Chrysene	1210	57	1273	0	95	55-110	1235	2.02	30	
Dibenzo(a,h)anthracene	1336	57	1273	0	105	40-125	1371	2.64	30	
Fluoranthene	1160	57	1273	0	91.1	55-115	1204	3.75	30	
Fluorene	1064	57	1273	0	83.5	50-110	1063	0.0735	30	
Indeno(1,2,3-cd)pyrene	1283	57	1273	0	101	40-120	1323	3.07	30	
Naphthalene	920.6	57	1273	0	72.3	40-105	887.8	3.62	30	
Pyrene	1329	57	1273	0	104	45-125	1334	0.411	30	
Surr: 2-Fluorobiphenyl	2539	0	3183	0	79.8	12-100	2481	2.33	40	
Surr: 4-Terphenyl-d14	3492	0	3183	0	110	25-137	3517	0.71	40	
Surr: Nitrobenzene-d5	2346	0	3183	0	73.7	37-107	2233	4.95	40	

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

Client: HRL Compliance Solutions
Work Order: 1308663
Project: Caerus Parachute Creek 6 Tank Removal 8/16/13

QC BATCH REPORT

Batch ID: **50634** Instrument ID **SVMS6** Method: **SW8270**

The following samples were analyzed in this batch:

1308663-01B

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

Client: HRL Compliance Solutions
Work Order: 1308663
Project: Caerus Parachute Creek 6 Tank Removal 8/16/13

QC BATCH REPORT

Batch ID: **50640** Instrument ID **VMS5** Method: **SW8260B**

MBLK		Sample ID: MBLK-50640-50640				Units: µg/Kg		Analysis Date: 8/19/2013 12:46 PM		
Client ID:		Run ID: VMS5_130819A				SeqNo: 2418379		Prep Date: 8/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
GRO (C6-C10)	ND	2,500								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1012	0	1000	0	101	70-130	0			
Surr: 4-Bromofluorobenzene	1024	0	1000	0	102	70-130	0			
Surr: Dibromofluoromethane	967	0	1000	0	96.7	70-130	0			
Surr: Toluene-d8	995	0	1000	0	99.5	70-130	0			

LCS		Sample ID: LCS-50640-50640				Units: µg/Kg		Analysis Date: 8/19/2013 11:36 AM		
Client ID:		Run ID: VMS5_130819A				SeqNo: 2418378		Prep Date: 8/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1016	30	1000	0	102	75-125	0			
Ethylbenzene	1110	30	1000	0	111	75-125	0			
m,p-Xylene	2232	60	2000	0	112	80-125	0			
o-Xylene	1105	30	1000	0	110	75-125	0			
Toluene	1022	30	1000	0	102	70-125	0			
Xylenes, Total	3338	90	3000	0	111	75-125	0			
Surr: 1,2-Dichloroethane-d4	1012	0	1000	0	101	70-130	0			
Surr: 4-Bromofluorobenzene	1015	0	1000	0	102	70-130	0			
Surr: Dibromofluoromethane	979	0	1000	0	97.9	70-130	0			
Surr: Toluene-d8	994.5	0	1000	0	99.4	70-130	0			

MS		Sample ID: 1308670-01A MS				Units: µg/Kg		Analysis Date: 8/20/2013 08:39 AM		
Client ID:		Run ID: VMS6_130819B				SeqNo: 2418614		Prep Date: 8/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1054	30	1000	0	105	75-125	0			
Ethylbenzene	1043	30	1000	0	104	75-125	0			
m,p-Xylene	2110	60	2000	0	106	80-125	0			
o-Xylene	1070	30	1000	0	107	75-125	0			
Toluene	1021	30	1000	0	102	70-125	0			
Xylenes, Total	3180	90	3000	0	106	75-125	0			
Surr: 1,2-Dichloroethane-d4	1070	0	1000	0	107	70-130	0			
Surr: 4-Bromofluorobenzene	1083	0	1000	0	108	70-130	0			
Surr: Dibromofluoromethane	1080	0	1000	0	108	70-130	0			
Surr: Toluene-d8	1048	0	1000	0	105	70-130	0			

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

Client: HRL Compliance Solutions
Work Order: 1308663
Project: Caerus Parachute Creek 6 Tank Removal 8/16/13

QC BATCH REPORT

Batch ID: **50640** Instrument ID **VMS5** Method: **SW8260B**

MSD				Sample ID: 1308670-01A MSD				Units: µg/Kg			Analysis Date: 8/20/2013 09:06 AM			
Client ID:				Run ID: VMS6_130819B				SeqNo: 2418615			Prep Date: 8/19/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Benzene	1016	30	1000	0	102	75-125	1054	3.57	30					
Ethylbenzene	1040	30	1000	0	104	75-125	1043	0.24	30					
m,p-Xylene	2078	60	2000	0	104	80-125	2110	1.55	30					
o-Xylene	1047	30	1000	0	105	75-125	1070	2.13	30					
Toluene	994.5	30	1000	0	99.4	70-125	1021	2.63	30					
Xylenes, Total	3125	90	3000	0	104	75-125	3180	1.74	30					
Surr: 1,2-Dichloroethane-d4	1056	0	1000	0	106	70-130	1070	1.27	30					
Surr: 4-Bromofluorobenzene	1098	0	1000	0	110	70-130	1083	1.33	30					
Surr: Dibromofluoromethane	1054	0	1000	0	105	70-130	1080	2.39	30					
Surr: Toluene-d8	1043	0	1000	0	104	70-130	1048	0.478	30					

The following samples were analyzed in this batch: | 1308663-01A |

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

Client: HRL Compliance Solutions
Work Order: 1308663
Project: Caerus Parachute Creek 6 Tank Removal 8/16/13

QC BATCH REPORT

Batch ID: **50653** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1308662-01C DUP				Units: mmhos/cm @25°C		Analysis Date: 8/21/2013 01:00 PM		
Client ID:		Run ID: WETCHEM_130821G				SeqNo: 2420163		Prep Date: 8/21/2013		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	14.5	0.025	0	0	0		12.7	13.2	50	

The following samples were analyzed in this batch:

1308663-01C

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

Client: HRL Compliance Solutions
Work Order: 1308663
Project: Caerus Parachute Creek 6 Tank Removal 8/16/13

QC BATCH REPORT

Batch ID: **50656** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-50656-50656					Units: s.u.			Analysis Date: 8/19/2013 03:30 PM				
Client ID:					Run ID: WETCHEM_130819I					SeqNo: 2418029			Prep Date: 8/19/2013			DF: 1	
Analyte					Result		PQL	SPK Val	SPK Ref Value	%REC		Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH					4.3		0	4.4	0	97.7		90-110	0				

DUP				Sample ID: 1308670-01B DUP				Units: s.u.			Analysis Date: 8/19/2013 03:30 PM		
Client ID:				Run ID: WETCHEM_130819I				SeqNo: 2418039		Prep Date: 8/19/2013		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
pH		8.08	0	0	0	0	0-0	8.22	1.72	20			

The following samples were analyzed in this batch:

1308663-01B

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

Client: HRL Compliance Solutions
Work Order: 1308663
Project: Caerus Parachute Creek 6 Tank Removal 8/16/13

QC BATCH REPORT

Batch ID: **50683** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-50683-50683				Units: mg/Kg		Analysis Date: 8/20/2013 01:15 PM		
Client ID:		Run ID: WETCHEM_130820B				SeqNo: 2419086		Prep Date: 8/19/2013		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-50683-50683				Units: mg/Kg		Analysis Date: 8/20/2013 01:15 PM		
Client ID:		Run ID: WETCHEM_130820B				SeqNo: 2419085		Prep Date: 8/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2.024 0.50 2 0 101 80-120 0

MS		Sample ID: 1308625-04B MS				Units: mg/Kg		Analysis Date: 8/20/2013 01:15 PM		
Client ID:		Run ID: WETCHEM_130820B				SeqNo: 2419081		Prep Date: 8/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2.282 0.49 1.961 0 116 75-125 0

MSD		Sample ID: 1308625-04B MSD				Units: mg/Kg		Analysis Date: 8/20/2013 01:15 PM		
Client ID:		Run ID: WETCHEM_130820B				SeqNo: 2419082		Prep Date: 8/19/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2.31 0.50 1.984 0 116 75-125 2.282 1.18 20

The following samples were analyzed in this batch:

1308663-01B

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

Client: HRL Compliance Solutions
Work Order: 1308663
Project: Caerus Parachute Creek 6 Tank Removal 8/16/13

QC BATCH REPORT

Batch ID: **R125369** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R125369				Units: % of sample			Analysis Date: 8/19/2013 11:45 AM		
Client ID:		Run ID: MOIST_130819B				SeqNo: 2418582			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	0.03	0.050								J	

LCS		Sample ID: LCS-R125369				Units: % of sample			Analysis Date: 8/19/2013 11:45 AM		
Client ID:		Run ID: MOIST_130819B				SeqNo: 2418581			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: 1308622-01B DUP				Units: % of sample			Analysis Date: 8/19/2013 11:45 AM		
Client ID:		Run ID: MOIST_130819B				SeqNo: 2418560			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	8.49	0.050	0	0	0	0-0	8.76	3.13	20		

DUP		Sample ID: 1308663-01B DUP				Units: % of sample			Analysis Date: 8/19/2013 11:45 AM		
Client ID: Footprint 32'		Run ID: MOIST_130819B				SeqNo: 2418573			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	13.73	0.050	0	0	0	0-0	13.96	1.66	20		

The following samples were analyzed in this batch:

1308663-01B

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 202r8

WORKORDER
#

1308663

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME Caerus Tank Removal Project

SAMPLER

~~Casey Richardson~~ Mike Lobato

DATE

8/16/13

TURNAROUND

24 hr

PROJECT No.

13-199-2

SITE ID

Parachute Creek #6

EDD FORMAT

COGCC/CSEV

PURCHASE ORDER

COMPANY NAME

HCSI

BILL TO COMPANY

Caerus Piceance LLC

SEND REPORT TO

Herman Lucero

INVOICE ATTN TO

Ed Winters

ADDRESS

2385 F 1/2 Road

ADDRESS

120 Railroad Ave. Suite D

CITY / STATE / ZIP

Grand Junction, CO. 81505

CITY / STATE / ZIP

Parachute, CO 81635

PHONE

970-243-3271

PHONE

970-285-9606

FAX

970-243-3280

FAX

E-MAIL

hlucero@hrlcomp.com
crichardson@hrlcomp.com

E-MAIL

ewinters@caerusoilandgas.com

Lab ID

Field ID

Matrix

Sample
Date

Sample
Time

Bottles

Pres.

QC

DRO

GRO

BTEX

TOTAL METALS - TABEL 910-1

SEMI VOLS - PAH

SAR

EC

pH

Footprint 32'

S

8/16/13

1245

3

8

X

X

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:

IF Soil moisture is >30%.
Please run SIM/PNA to adjust parameters
to within COGCC/CSEV standards.
3.8"

QC PACKAGE (check below)

☒

LEVEL II (Standard QC)

LEVEL III (Std QC + forms)

LEVEL IV (Std QC + forms
+ raw data)

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

SIGNATURE

PRINTED NAME

DATE

TIME

RELINQUISHED BY

Mike Lobato

~~Casey Richardson~~ Mike Lobato

8/16/13

1400

RECEIVED BY

Wm

Wm

8-16-13

1400

RELINQUISHED BY

Wm

Wm

8-13-13

1410

RECEIVED BY

Wm

Wm

8/17/13

1000

RELINQUISHED BY

Wm

Wm

8/17/13

1000

RECEIVED BY

Wm

Wm

8/17/13

1000

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 17-Aug-13 10:00

Work Order: 1308663

Received by: KRW

Checklist completed by Keith Wurenga 17-Aug-13
eSignature Date

Reviewed by: Ann Preston 19-Aug-13
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 type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.8 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>8/17/2013 11:02:21 AM</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: (970) 424-4749
Lab Hub, LLC

Origin ID: RILA



Ship Date: 16AUG13
ActWgt: 60.0 LB
CAD: 103923490/INET3430

Dims: 25 X 14 X 15 IN

127 E First Street

PARACHUTE, CO 81635



J13201306280326

SHIP TO: (616) 399-6070
Sample recieving
ALS Holland
3352 128TH AVE

BILL RECIPIENT

HOLLAND, MI 49424

Delivery Address Bar Code



Ref # 1001-081613-1
Invoice #
PO #
Dept #

SATURDAY 12:00P
PRIORITY OVERNIGHT

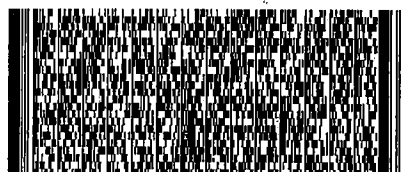
TRK# 7964 8620 4573
0201

X0 GRRRA

49424

MI-US

GRR



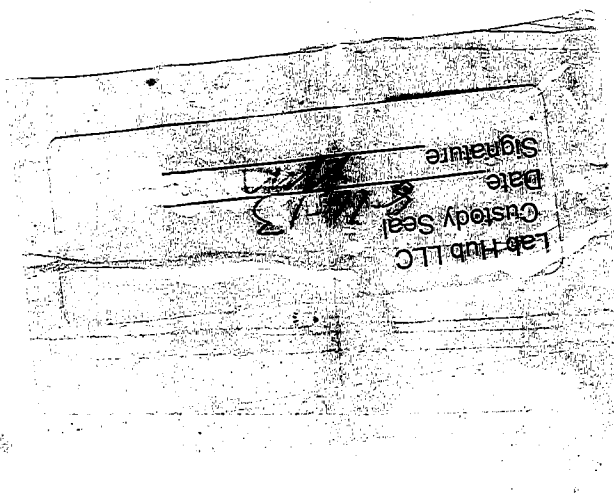
51AG10889/1A8E

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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19-Aug-2013

Herman Lucero
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Caerus Parachute Creek 6 Background 8/8/13**

Work Order: **1308402**

Dear Herman,

ALS Environmental received 3 samples on 10-Aug-2013 09:15 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 14.

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

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

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

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

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Caerus Parachute Creek 6 Background 8/8/13
Work Order: 1308402

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>
1308402-01	BKGD 1	Soil		8/8/2013 09:50	8/10/2013 09:15	<input type="checkbox"/>
1308402-02	BKGD 2	Soil		8/8/2013 10:03	8/10/2013 09:15	<input type="checkbox"/>
1308402-03	BKGD 3	Soil		8/8/2013 10:06	8/10/2013 09:15	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Caerus Parachute Creek 6 Background 8/8/13
WorkOrder: 1308402

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

<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
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
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: 19-Aug-13

Client: HRL Compliance Solutions

Project: Caerus Parachute Creek 6 Background 8/8/13

Sample ID: BKGD 1

Collection Date: 8/8/2013 09:50 AM

Work Order: 1308402

Lab ID: 1308402-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 8/13/2013	Analyst: ML
Arsenic	10		1.7	mg/Kg-dry	5	8/13/2013 09:57 PM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep Date: 8/12/2013	Analyst: RH
Calcium	150		10	mg/L	20	8/12/2013 03:20 PM
Magnesium	26		4.0	mg/L	20	8/12/2013 03:20 PM
Sodium	31		4.0	mg/L	20	8/12/2013 03:20 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep Date: 8/12/2013	Analyst: RH
Sodium Adsorption Ratio	0.62		0.010	none	1	8/12/2013
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 8/12/2013	Analyst: JB
Electrical Conductivity @ Saturation	1.2		0.025	mmhos/cm @25	5	8/12/2013 01:00 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	7.2		0.050	% of sample	1	8/12/2013 03:25 PM
PH			SW9045D		Prep Date: 8/13/2013	Analyst: JB
pH	7.9			s.u.	1	8/13/2013 11:00 AM

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

ALS Group USA, Corp

Date: 19-Aug-13

Client: HRL Compliance Solutions

Project: Caerus Parachute Creek 6 Background 8/8/13

Work Order: 1308402

Sample ID: BKGD 2

Lab ID: 1308402-02

Collection Date: 8/8/2013 10:03 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
METALS BY ICP-MS			SW6020A		Prep Date: 8/13/2013	Analyst: ML
Arsenic	9.2		2.0	mg/Kg-dry	5	8/13/2013 10:03 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	8.8		0.050	% of sample	1	8/12/2013 03:25 PM

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

ALS Group USA, Corp

Date: 19-Aug-13

Client: HRL Compliance Solutions

Project: Caerus Parachute Creek 6 Background 8/8/13

Sample ID: BKGD 3

Collection Date: 8/8/2013 10:06 AM

Work Order: 1308402

Lab ID: 1308402-03

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 8/13/2013	Analyst: ML
Arsenic	9.4		1.9	mg/Kg-dry	5	8/13/2013 10:09 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	7.9		0.050	% of sample	1	8/12/2013 03:25 PM

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

Client: HRL Compliance Solutions

Work Order: 1308402

Project: Caerus Parachute Creek 6 Background 8/8/13

QC BATCH REPORT

Batch ID: 50450 Instrument ID ICPMS2 Method: SW6020A (Dissolve)

DUP	Sample ID: 1308402-01BDUP					Units: mg/L		Analysis Date: 8/12/2013 03:25 PM		
Client ID: BKGD 1			Run ID: ICPMS2_130812A			SeqNo: 2411026		Prep Date: 8/12/2013		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	159.3	10	0	0	0	0-0	151.2	5.19		
Magnesium	28.3	4.0	0	0	0	0-0	26.36	7.1		
Sodium	32.6	4.0	0	0	0	0-0	31.3	4.07		

The following samples were analyzed in this batch:

1308402-01B

Client: HRL Compliance Solutions
Work Order: 1308402
Project: Caerus Parachute Creek 6 Background 8/8/13

QC BATCH REPORT

Batch ID: **50511** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-50511-50511				Units: mg/Kg		Analysis Date: 8/13/2013 07:30 PM		
Client ID:		Run ID: ICPMS1_130813A				SeqNo: 2412844		Prep Date: 8/13/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic ND 0.25

LCS		Sample ID: LCS-50511-50511				Units: mg/Kg		Analysis Date: 8/13/2013 07:37 PM		
Client ID:		Run ID: ICPMS1_130813A				SeqNo: 2412845		Prep Date: 8/13/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic 4.702 0.25 5 0 94 80-120 0

MS		Sample ID: 1308368-10BMS				Units: mg/Kg		Analysis Date: 8/13/2013 09:27 PM		
Client ID:		Run ID: ICPMS1_130813A				SeqNo: 2412871		Prep Date: 8/13/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic 7.851 0.38 7.622 0.6017 95.1 75-125 0

MSD		Sample ID: 1308368-10BMSD				Units: mg/Kg		Analysis Date: 8/13/2013 09:33 PM		
Client ID:		Run ID: ICPMS1_130813A				SeqNo: 2412872		Prep Date: 8/13/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic 7.589 0.37 7.44 0.6017 93.9 75-125 7.851 3.39 25

The following samples were analyzed in this batch:

1308402-01A	1308402-02A	1308402-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1308402
Project: Caerus Parachute Creek 6 Background 8/8/13

QC BATCH REPORT

Batch ID: **50450** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1308402-01B DUP				Units: mmhos/cm @25°C		Analysis Date: 8/12/2013 01:00 PM		
Client ID: BKGD 1		Run ID: WETCHEM_130812E				SeqNo: 2410646		Prep Date: 8/12/2013		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.29	0.025	0	0	0		1.2	7.23	50	

The following samples were analyzed in this batch:

1308402-01B

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

Client: HRL Compliance Solutions
Work Order: 1308402
Project: Caerus Parachute Creek 6 Background 8/8/13

QC BATCH REPORT

Batch ID: **50504** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-50504-50504					Units: s.u.			Analysis Date: 8/13/2013 11:00 AM				
Client ID:					Run ID: WETCHEM_130813B					SeqNo: 2411819			Prep Date: 8/13/2013			DF: 1	
Analyte					Result		PQL	SPK Val	SPK Ref Value	%REC		Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH					4.31		0	4.4	0	98		90-110	0				

DUP				Sample ID: 1308401-01B DUP				Units: s.u.			Analysis Date: 8/13/2013 11:00 AM			
Client ID:				Run ID: WETCHEM_130813B				SeqNo: 2411825			Prep Date: 8/13/2013		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH		8.09	0	0	0	0	0-0	8.15	0.739	20				

DUP					Sample ID: 1308405-02A DUP					Units: s.u.			Analysis Date: 8/13/2013 11:00 AM		
Client ID:				Run ID: WETCHEM_130813B				SeqNo: 2411831			Prep Date: 8/13/2013		DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
pH		7.86	0	0	0	0	0-0	7.84	0.255	20					

The following samples were analyzed in this batch:

1308402-01A

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

Client: HRL Compliance Solutions
Work Order: 1308402
Project: Caerus Parachute Creek 6 Background 8/8/13

QC BATCH REPORT

Batch ID: **R125045** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R125045				Units: % of sample		Analysis Date: 8/12/2013 03:25 PM		
Client ID:		Run ID: MOIST_130812C				SeqNo: 2411912		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-R125045				Units: % of sample		Analysis Date: 8/12/2013 03:25 PM		
Client ID:		Run ID: MOIST_130812C				SeqNo: 2411910		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: 1308402-02A DUP				Units: % of sample		Analysis Date: 8/12/2013 03:25 PM		
Client ID: BKGD 2		Run ID: MOIST_130812C				SeqNo: 2411890		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 8.79 0.050 0 0 0 0-0 8.81 0.227 20

DUP		Sample ID: 1308419-01A DUP				Units: % of sample		Analysis Date: 8/12/2013 03:25 PM		
Client ID:		Run ID: MOIST_130812C				SeqNo: 2411895		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 34.35 0.050 0 0 0 0-0 34.1 0.73 20

The following samples were analyzed in this batch:

1308402-01A	1308402-02A	1308402-03A
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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 202r8

WORKORDER #

1308402

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

CAERUS

SAMPLER

Casey Richardson

DATE

8-9-13

TURNAROUND

5 DAY

PROJECT NAME

PARACHUTE CREEK 6

SITE ID

PROJECT No.

BACKGROUND #13-199-7

EDD FORMAT

PURCHASE ORDER

COMPANY NAME

HCSI

BILL TO COMPANY

PDCE Energy CAERUS

SEND REPORT TO

Herman Lucero

INVOICE ATTN TO

Ed Winters

ADDRESS

2385 F 1/2 Road

ADDRESS

120 Railroad Ave. Suite D

CITY / STATE / ZIP

Grand Junction, CO. 81505

CITY / STATE / ZIP

Parachute, CO 81635

PHONE

970-243-3271

PHONE

970-285-9606

FAX

970-243-3280

FAX

E-MAIL

hlucero@hrlcomp.com
crichardson@hrlcomp.com

E-MAIL

ewinters@pdce.com

Lab ID

Field ID

Matrix

Sample Date

Sample Time

Bottles

Pres.

QC

DRG

GRD

STX

TOTAL METALS - LABEL 940-1

SEMIVOLS - PAH

SAR

EC

pH

ARSENIC

*Time Zone (Circle): EST CST WST 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)

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

Casey Richardson

Casey Richardson

8-9-13

1235

RECEIVED BY

Casey Richardson

Casey Richardson

8-9-13

1230

RELINQUISHED BY

Diane F. Sha

Diane F. Sha

8-9-13

1500

RECEIVED BY

Diane F. Sha

Diane F. Sha

8/10/13

0915

RELINQUISHED BY

RECEIVED BY

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 10-Aug-13 09:15

Work Order: 1308402

Received by: DS

Checklist completed by Diane Shaw 10-Aug-13
eSignature Date

Reviewed by: Ann Preston 13-Aug-13
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 type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sample(s) received on ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.2 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>8/10/2013 10:46:40 AM</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: (970) 424-4749
Lab Hub, LLC

Origin ID: RILA



Ship Date: 09AUG13
ActWgt: 68.0 LB
CAD: 103923490/NET3430

Dims: 21 X 14 X 16 IN

127 E First Street

PARACHUTE, CO 81635



J13201306280326

SHIP TO: (616) 399-6070

BILL RECIPIENT

Sample recieving
ALS Holland
3352 128TH AVE

HOLLAND, MI 49424

Delivery Address Bar Code



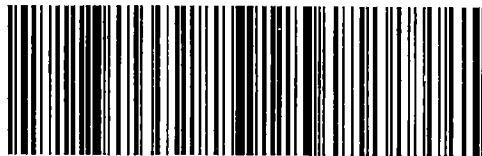
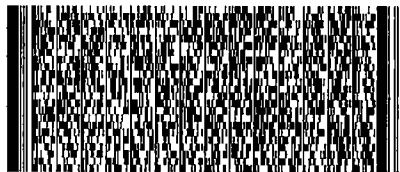
Ref # 1001-080913-1
Invoice #
PO #
Dept #

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 7964 3572 0734
0201

X0 GRRRA

49424
MI-US
GRR



51AG10989/1AGE

After printing this label:

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Lab Hub LLC
Custody Seal
Date
Signature

8-9-13
[Signature]