

Parachute Creek 3 (Chevron 12B-17D) (Location ID 335581)
Partially Buried Vessel Removal (Non-Facility ID 435761)
Form 4 (Notice of Completion)
Narrative Attachment
Document Date – 3/23/2015

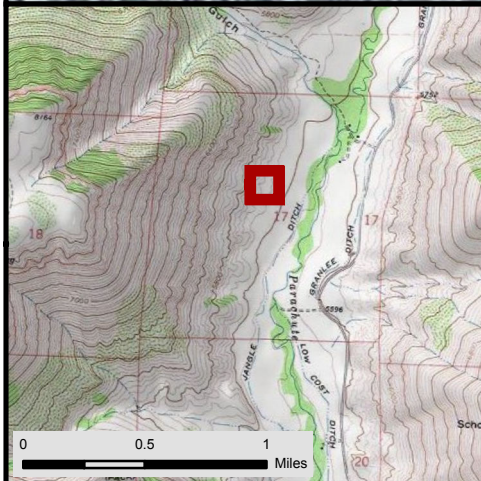
This Form 4 (Notice of Completion) was prepared for the purpose of describing completed work associated with the assessment of soil during the removal of a partially buried vessel (PBV) (Non-Facility ID 435761) at the Parachute Creek 3 (Chevron 12B-17D) pad location (Location ID 335581) in the Caerus Piceance, LLC (Caerus) area of operations. This assessment was conducted using procedures approved under COGCC Remediation #8164. Based on field observations and the amount of soil removed during the assessment, a Form 19 was not submitted to the COGCC. 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. Approximately 125 cubic yards of soil were removed and remediated on site to below COGCC Table 910-1 Concentration Levels. The void created by the tank removal was backfilled with the remediated soil removed during the assessment. Analytical results are summarized in the attached analytical table.

On May 20, 2014 confirmation soil samples were collected from the soil around and beneath the removed PBV (North Wall 4', Footprint 8', West Wall 4', East Wall 4', and South Wall 4'). Soil samples were submitted for laboratory analysis of all COGCC Table 910-1 analytes. Analytical results indicate all soil samples were in compliance with COGCC Table 910-1 Concentration Levels for all analytes or were within background concentrations, except for the sodium adsorption ratio (SAR), electrical conductivity (EC) measurements, and the benzene result of soil sample Footprint 8'. However, these confirmation samples were collected at a depth greater than three feet below the ground surface and the COGCC does not apply the Concentration Level for SAR and EC to soils deeper than three feet below ground surface. A background arsenic concentration was used from a nearby pad (Parachute Creek 12) for comparison.

On May 28, 2014, additional soil was removed from the area represented by soil sample Footprint 8' and an additional confirmation soil sample (Footprint 10') was collected and submitted for laboratory analysis of benzene. The analytical result of this sample was below laboratory reporting limits for benzene. Sample locations are depicted on the attached Sample Location Map and laboratory analytical results are summarized in the attached analytical table. 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.



Notes / Comments:

CAERUS Sample Location
 Map: Parachute
 Creek 3

39.526188 -108.132520
 Section 17, Township 6 South, Range 96 West

Sample Location	Transportation	Hydrography
● Sample Location	— CO Highways	— Ditch
▨ Excavated Area	— County Roads	— Intermittent Stream
PLSS	— Local Streets	— Perennial Stream
□ Township	— WPX Access	— Waterbody
□ Section		— Watershed

HRI COMPLIANCE SOLUTIONS, INC.
 Environmental Consultants

Author: E.Fought
 Revision: 1
 Date: 2/24/2015

DISCLAIMER: This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, planning, and modeling. GIS is not intended, nor does it replace, legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorder's office or the courts. In addition, the representations or locations in this GIS cannot be substituted for actual legal surveys.

Caerus Piceance LLC
Parachute Creek 3 Partially Buried Vault Removal
Soil Sample Confirmation and Background Analytical Results

COGCC Table 910-1 Analytical Suite	Table 910-1 Standard	Units	Sample ID										Containment Cell	Containment Cell
			North Wall 4'	South Wall 4'	East Wall 4'	West Wall 4'	Footprint 8'	Footprint 10'	BKGD 01	BKGD 02	BKGD 03	8/6/2014		
Sample Date			5/20/2014	5/20/2014	5/20/2014	5/20/2014	5/20/2014	5/28/2014	5/22/2014	5/22/2014	5/22/2014	8/6/2014	8/22/2014	
Organics														
TEPH (DRO)	500	mg/kg	40	18	22	69	49	NA	NA	NA	NA	100	NA	
TVPH (GRO)	500	mg/kg	ND	ND	ND	ND	300	NA	NA	NA	NA	38	NA	
TPH	500	mg/kg	40	18	22	69	349	NA	NA	NA	NA	138	NA	
BENZENE	0.17	mg/kg	ND	ND	ND	ND	0.320	ND	NA	NA	NA	ND	NA	
TOLUENE	85	mg/kg	ND	ND	ND	ND	7.600	NA	NA	NA	NA	ND	NA	
ETHYLBENZENE	100	mg/kg	ND	ND	ND	ND	1.500	NA	NA	NA	NA	ND	NA	
XYLENE TOTAL	175	mg/kg	ND	ND	ND	ND	33	NA	NA	NA	NA	0.34	NA	
ACENAPHTHENE	1,000	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	
ANTHRACENE	1,000	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	
BENZO(A)ANTHRACENE	0.22	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	
BENZO(A)PYRENE	0.022	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	
BENZO(B)FLUORANTHENE	0.22	mg/kg	ND	ND	ND	ND	0.0099	NA	NA	NA	NA	NA	ND	
BENZO(K)FLUORANTHENE	2.2	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	
CHRYSENE	22	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	
DIBENZO(A,H)ANTHRACENE	0.022	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	
FLUORANTHENE	1,000	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	
FLUORENE	1,000	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	
INDENO(1,2,3-CD)PYRENE	0.22	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	
NAPHTHALENE	23	mg/kg	ND	ND	ND	ND	0.036	NA	NA	NA	NA	NA	ND	
PYRENE	1,000	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	
Metals														
MERCURY	23	mg/kg	0.098	0.024	0.038	0.022	0.032	NA	NA	NA	NA	NA	0.075	
ARSENIC	0.39	mg/kg	14	15	14	6.8	9.5	NA	6.3	7.1	6.8	NA	12	
BARIUM	15,000	mg/kg	170	120	210	180	170	NA	NA	NA	NA	NA	240	
CADMIUM	70	mg/kg	1.1	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	
CHROMIUM (III)	120,000	mg/kg	9.4	14	12	13	6.8	NA	NA	NA	NA	NA	8.4	
CHROMIUM (IV)	23	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	
COPPER	3,100	mg/kg	16	22	19	15	13	NA	NA	NA	NA	NA	16	
LEAD	400	mg/kg	13	17	16	9.8	11	NA	NA	NA	NA	NA	14	
NICKEL	1,600	mg/kg	16	20	19	17	13	NA	NA	NA	NA	NA	16	
SELENIUM	390	mg/kg	3.7	3.1	2.4	ND	3.1	NA	NA	NA	NA	NA	2.4	
SILVER	390	mg/kg	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	
ZINC	23,000	mg/kg	64	72	6.8	61	54	NA	NA	NA	NA	NA	59	
Inorganics														
Sodium Adsorption Ratio	<12	unitless	26	36	9.2	25	44	NA	NA	NA	0.47	NA	27	
Electrical Conductivity	<4mmhos/cm or 2x background	mmhos/cm	22	25	4.3	15	33	NA	NA	NA	4.2	NA	18	
pH	6 to 9	SU	7.7	8.2	8.2	8.0	8.0	NA	NA	NA	7.9	NA	8.2	

Notes:
highlight indicates reading above COGCC Table 910-1 standards
ND - non detect
NA - not analyzed
SU - standard unit
mg/kg - milligram per kilogram
mmhos/cm - millimhos per centimeter
TEPH - total petroleum hydrocarbons - Diesel range organics
TVPH - total petroleum hydrocarbons - gasoline range organics
TPH - total petroleum hydrocarbons (TEPH and TVPH combined)
COGCC - Colorado Oil and Gas Conservation Commission



27-May-2014

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

Re: **Caerus Parachute Creek 3 PBV Removal 5.20.14**

Work Order: **14051082**

Dear Mark,

ALS Environmental received 5 samples on 21-May-2014 10:00 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 31.

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

Sincerely,

Ann Preston

Electronically approved by: Chad Whelton

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, Inc
Project: Caerus Parachute Creek 3 PBV Removal 5.20.14
Work Order: 14051082

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>
14051082-01	North Wall 4'	Soil		5/20/2014 14:00	5/21/2014 10:00	<input type="checkbox"/>
14051082-02	South Wall 4'	Soil		5/20/2014 14:40	5/21/2014 10:00	<input type="checkbox"/>
14051082-03	East Wall 4'	Soil		5/20/2014 14:46	5/21/2014 10:00	<input type="checkbox"/>
14051082-04	West Wall 4'	Soil		5/20/2014 14:05	5/21/2014 10:00	<input type="checkbox"/>
14051082-05	Footprint 8'	Soil		5/20/2014 13:20	5/21/2014 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: Caerus Parachute Creek 3 PBV Removal 5.20.14
Work Order: 14051082

Case Narrative

Batch 58886, Method ICP_6020_S, Sample 14051082-01B: The reporting limit is elevated due to dilution for high concentrations of non-target analytes.

Batch 58886, Method ICP_6020_S, Sample 14051082-02B: The reporting limit is elevated due to dilution for high concentrations of non-target analytes.

Batch 58886, Method ICP_6020_S, Sample 14051082-03B: The reporting limit is elevated due to dilution for high concentrations of non-target analytes.

Batch 58886, Method ICP_6020_S, Sample 14051082-04B: The reporting limit is elevated due to dilution for high concentrations of non-target analytes.

Batch 58886, Method ICP_6020_S, Sample 14051082-05B: The reporting limit is elevated due to dilution for high concentrations of non-target analytes.

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: 27-May-14

Client: HRL Compliance Solutions, Inc

Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

Work Order: 14051082

Sample ID: North Wall 4'

Lab ID: 14051082-01

Collection Date: 5/20/2014 02:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 5/22/14	Analyst: IT
DRO (C10-C28)	40		4.9	mg/Kg-dry	1	5/22/2014 08:13 PM
<i>Surr: 4-Terphenyl-d14</i>	93.9		39-133	%REC	1	5/22/2014 08:13 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 5/22/14	Analyst: IT
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	5/22/2014 07:00 PM
<i>Surr: Toluene-d8</i>	116		50-150	%REC	1	5/22/2014 07:00 PM
MERCURY BY CVAA			SW7471		Prep: SW7471 / 5/22/14	Analyst: LR
Mercury	0.098		0.017	mg/Kg-dry	1	5/22/2014 12:36 PM
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 5/22/14	Analyst: ML
Arsenic	14		2.4	mg/Kg-dry	5	5/22/2014 06:32 PM
Barium	170		2.4	mg/Kg-dry	5	5/22/2014 06:32 PM
Cadmium	1.1		0.97	mg/Kg-dry	5	5/22/2014 06:32 PM
Chromium	10		2.4	mg/Kg-dry	5	5/22/2014 06:32 PM
Copper	16		2.4	mg/Kg-dry	5	5/22/2014 06:32 PM
Lead	13		2.4	mg/Kg-dry	5	5/22/2014 06:32 PM
Nickel	16		2.4	mg/Kg-dry	5	5/22/2014 06:32 PM
Selenium	3.7		2.4	mg/Kg-dry	5	5/22/2014 06:32 PM
Silver	ND		2.4	mg/Kg-dry	5	5/22/2014 06:32 PM
Zinc	64		4.8	mg/Kg-dry	5	5/22/2014 06:32 PM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep: USDA Method 20B / 5/23/14	Analyst: RH
Calcium	400		10	mg/L	20	5/24/2014 11:23 AM
Magnesium	500		4.0	mg/L	20	5/24/2014 11:23 AM
Sodium	3,300		4.0	mg/L	20	5/24/2014 11:23 AM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 5/23/14	Analyst: RH
Sodium Adsorption Ratio	26		0.010	none	1	5/24/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3541 / 5/22/14	Analyst: RM
Acenaphthene	ND		7.9	µg/Kg-dry	1	5/23/2014 12:42 PM
Acenaphthylene	ND		7.9	µg/Kg-dry	1	5/23/2014 12:42 PM
Anthracene	ND		7.9	µg/Kg-dry	1	5/23/2014 12:42 PM
Benzo(a)anthracene	ND		7.9	µg/Kg-dry	1	5/23/2014 12:42 PM
Benzo(a)pyrene	ND		7.9	µg/Kg-dry	1	5/23/2014 12:42 PM
Benzo(b)fluoranthene	ND		7.9	µg/Kg-dry	1	5/23/2014 12:42 PM
Benzo(g,h,i)perylene	ND		7.9	µg/Kg-dry	1	5/23/2014 12:42 PM
Benzo(k)fluoranthene	ND		7.9	µg/Kg-dry	1	5/23/2014 12:42 PM
Chrysene	ND		7.9	µg/Kg-dry	1	5/23/2014 12:42 PM

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

ALS Group USA, Corp

Date: 27-May-14

Client: HRL Compliance Solutions, Inc

Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

Work Order: 14051082

Sample ID: North Wall 4'

Lab ID: 14051082-01

Collection Date: 5/20/2014 02:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.9	µg/Kg-dry	1	5/23/2014 12:42 PM
Fluoranthene	ND		7.9	µg/Kg-dry	1	5/23/2014 12:42 PM
Fluorene	ND		7.9	µg/Kg-dry	1	5/23/2014 12:42 PM
Indeno(1,2,3-cd)pyrene	ND		7.9	µg/Kg-dry	1	5/23/2014 12:42 PM
Naphthalene	ND		7.9	µg/Kg-dry	1	5/23/2014 12:42 PM
Pyrene	13		7.9	µg/Kg-dry	1	5/23/2014 12:42 PM
Surr: 2-Fluorobiphenyl	64.6		12-100	%REC	1	5/23/2014 12:42 PM
Surr: 4-Terphenyl-d14	114		25-137	%REC	1	5/23/2014 12:42 PM
Surr: Nitrobenzene-d5	68.3		37-107	%REC	1	5/23/2014 12:42 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 5/22/14	Analyst: AK
Benzene	ND		37	µg/Kg-dry	1	5/22/2014 08:06 PM
Ethylbenzene	ND		37	µg/Kg-dry	1	5/22/2014 08:06 PM
m,p-Xylene	ND		73	µg/Kg-dry	1	5/22/2014 08:06 PM
o-Xylene	ND		37	µg/Kg-dry	1	5/22/2014 08:06 PM
Toluene	ND		37	µg/Kg-dry	1	5/22/2014 08:06 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	5/22/2014 08:06 PM
Surr: 1,2-Dichloroethane-d4	95.6		70-130	%REC	1	5/22/2014 08:06 PM
Surr: 4-Bromofluorobenzene	95.3		70-130	%REC	1	5/22/2014 08:06 PM
Surr: Dibromofluoromethane	92.8		70-130	%REC	1	5/22/2014 08:06 PM
Surr: Toluene-d8	99.8		70-130	%REC	1	5/22/2014 08:06 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 5/23/14	Analyst: JB
Electrical Conductivity @ Saturation	22		0.050	mmhos/cm @2	10	5/27/2014 07:00 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	9.4		0.61	mg/Kg-dry	1	5/27/2014 08:01 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 5/23/14	Analyst: JJ
Chromium, Hexavalent	ND		0.60	mg/Kg-dry	1	5/23/2014 12:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	18		0.050	% of sample	1	5/21/2014 07:34 PM
PH			SW9045D		Prep: EXTRACT / 5/22/14	Analyst: AT
pH	7.7			s.u.	1	5/22/2014 04:42 PM

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

Client: HRL Compliance Solutions, Inc

Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

Work Order: 14051082

Sample ID: South Wall 4'

Lab ID: 14051082-02

Collection Date: 5/20/2014 02:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 5/22/14	Analyst: IT
DRO (C10-C28)	18		5.0	mg/Kg-dry	1	5/22/2014 08:43 PM
<i>Surr: 4-Terphenyl-d14</i>	95.6		39-133	%REC	1	5/22/2014 08:43 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 5/22/14	Analyst: IT
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	5/22/2014 07:26 PM
<i>Surr: Toluene-d8</i>	110		50-150	%REC	1	5/22/2014 07:26 PM
MERCURY BY CVAA			SW7471		Prep: SW7471 / 5/22/14	Analyst: LR
Mercury	0.024		0.016	mg/Kg-dry	1	5/22/2014 12:45 PM
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 5/22/14	Analyst: ML
Arsenic	15		1.9	mg/Kg-dry	5	5/22/2014 06:38 PM
Barium	120		1.9	mg/Kg-dry	5	5/22/2014 06:38 PM
Cadmium	ND		0.76	mg/Kg-dry	5	5/22/2014 06:38 PM
Chromium	14		1.9	mg/Kg-dry	5	5/22/2014 06:38 PM
Copper	22		1.9	mg/Kg-dry	5	5/22/2014 06:38 PM
Lead	17		1.9	mg/Kg-dry	5	5/22/2014 06:38 PM
Nickel	20		1.9	mg/Kg-dry	5	5/22/2014 06:38 PM
Selenium	3.1		1.9	mg/Kg-dry	5	5/22/2014 06:38 PM
Silver	ND		1.9	mg/Kg-dry	5	5/22/2014 06:38 PM
Zinc	72		3.8	mg/Kg-dry	5	5/22/2014 06:38 PM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep: USDA Method 20B / 5/23/14	Analyst: RH
Calcium	380		100	mg/L	200	5/24/2014 11:29 AM
Magnesium	400		40	mg/L	200	5/24/2014 11:29 AM
Sodium	4,300		40	mg/L	200	5/24/2014 11:29 AM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 5/23/14	Analyst: RH
Sodium Adsorption Ratio	36		0.010	none	1	5/24/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3541 / 5/22/14	Analyst: RM
Acenaphthene	ND		8.0	µg/Kg-dry	1	5/23/2014 01:02 PM
Acenaphthylene	ND		8.0	µg/Kg-dry	1	5/23/2014 01:02 PM
Anthracene	ND		8.0	µg/Kg-dry	1	5/23/2014 01:02 PM
Benzo(a)anthracene	ND		8.0	µg/Kg-dry	1	5/23/2014 01:02 PM
Benzo(a)pyrene	ND		8.0	µg/Kg-dry	1	5/23/2014 01:02 PM
Benzo(b)fluoranthene	ND		8.0	µg/Kg-dry	1	5/23/2014 01:02 PM
Benzo(g,h,i)perylene	ND		8.0	µg/Kg-dry	1	5/23/2014 01:02 PM
Benzo(k)fluoranthene	ND		8.0	µg/Kg-dry	1	5/23/2014 01:02 PM
Chrysene	ND		8.0	µg/Kg-dry	1	5/23/2014 01:02 PM

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

ALS Group USA, Corp

Date: 27-May-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Parachute Creek 3 PBV Removal 5.20.14
Sample ID: South Wall 4'
Collection Date: 5/20/2014 02:40 PM

Work Order: 14051082
Lab ID: 14051082-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		8.0	µg/Kg-dry	1	5/23/2014 01:02 PM
Fluoranthene	ND		8.0	µg/Kg-dry	1	5/23/2014 01:02 PM
Fluorene	ND		8.0	µg/Kg-dry	1	5/23/2014 01:02 PM
Indeno(1,2,3-cd)pyrene	ND		8.0	µg/Kg-dry	1	5/23/2014 01:02 PM
Naphthalene	ND		8.0	µg/Kg-dry	1	5/23/2014 01:02 PM
Pyrene	ND		8.0	µg/Kg-dry	1	5/23/2014 01:02 PM
Surr: 2-Fluorobiphenyl	63.8		12-100	%REC	1	5/23/2014 01:02 PM
Surr: 4-Terphenyl-d14	93.0		25-137	%REC	1	5/23/2014 01:02 PM
Surr: Nitrobenzene-d5	66.6		37-107	%REC	1	5/23/2014 01:02 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 5/22/14	Analyst: AK
Benzene	ND		36	µg/Kg-dry	1	5/22/2014 08:31 PM
Ethylbenzene	ND		36	µg/Kg-dry	1	5/22/2014 08:31 PM
m,p-Xylene	ND		72	µg/Kg-dry	1	5/22/2014 08:31 PM
o-Xylene	ND		36	µg/Kg-dry	1	5/22/2014 08:31 PM
Toluene	ND		36	µg/Kg-dry	1	5/22/2014 08:31 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	5/22/2014 08:31 PM
Surr: 1,2-Dichloroethane-d4	95.3		70-130	%REC	1	5/22/2014 08:31 PM
Surr: 4-Bromofluorobenzene	96.5		70-130	%REC	1	5/22/2014 08:31 PM
Surr: Dibromofluoromethane	93.2		70-130	%REC	1	5/22/2014 08:31 PM
Surr: Toluene-d8	99.6		70-130	%REC	1	5/22/2014 08:31 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 5/23/14	Analyst: JB
Electrical Conductivity @ Saturation	25		0.050	mmhos/cm @2	10	5/27/2014 07:00 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	14		0.60	mg/Kg-dry	1	5/27/2014 08:01 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 5/23/14	Analyst: JJ
Chromium, Hexavalent	ND		0.60	mg/Kg-dry	1	5/23/2014 12:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	17		0.050	% of sample	1	5/21/2014 07:34 PM
PH			SW9045D		Prep: EXTRACT / 5/22/14	Analyst: AT
pH	8.2			s.u.	1	5/22/2014 04:42 PM

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

ALS Group USA, Corp

Date: 27-May-14

Client: HRL Compliance Solutions, Inc

Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

Work Order: 14051082

Sample ID: East Wall 4'

Lab ID: 14051082-03

Collection Date: 5/20/2014 02:46 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 5/22/14	Analyst: IT
DRO (C10-C28)	22		4.9	mg/Kg-dry	1	5/22/2014 09:13 PM
Surr: 4-Terphenyl-d14	86.7		39-133	%REC	1	5/22/2014 09:13 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 5/22/14	Analyst: IT
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	5/22/2014 07:52 PM
Surr: Toluene-d8	112		50-150	%REC	1	5/22/2014 07:52 PM
MERCURY BY CVAA			SW7471		Prep: SW7471 / 5/22/14	Analyst: LR
Mercury	0.038		0.020	mg/Kg-dry	1	5/22/2014 12:53 PM
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 5/22/14	Analyst: ML
Arsenic	14		2.4	mg/Kg-dry	5	5/22/2014 06:44 PM
Barium	210		2.4	mg/Kg-dry	5	5/22/2014 06:44 PM
Cadmium	ND		0.95	mg/Kg-dry	5	5/22/2014 06:44 PM
Chromium	12		2.4	mg/Kg-dry	5	5/22/2014 06:44 PM
Copper	19		2.4	mg/Kg-dry	5	5/22/2014 06:44 PM
Lead	16		2.4	mg/Kg-dry	5	5/22/2014 06:44 PM
Nickel	19		2.4	mg/Kg-dry	5	5/22/2014 06:44 PM
Selenium	2.4		2.4	mg/Kg-dry	5	5/22/2014 06:44 PM
Silver	ND		2.4	mg/Kg-dry	5	5/22/2014 06:44 PM
Zinc	68		4.7	mg/Kg-dry	5	5/22/2014 06:44 PM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep: USDA Method 20B / 5/23/14	Analyst: RH
Calcium	190		10	mg/L	20	5/24/2014 11:35 AM
Magnesium	58		4.0	mg/L	20	5/24/2014 11:35 AM
Sodium	560		4.0	mg/L	20	5/24/2014 11:35 AM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 5/23/14	Analyst: RH
Sodium Adsorption Ratio	9.2		0.010	none	1	5/24/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3541 / 5/22/14	Analyst: RM
Acenaphthene	ND		7.9	µg/Kg-dry	1	5/23/2014 01:22 PM
Acenaphthylene	ND		7.9	µg/Kg-dry	1	5/23/2014 01:22 PM
Anthracene	ND		7.9	µg/Kg-dry	1	5/23/2014 01:22 PM
Benzo(a)anthracene	ND		7.9	µg/Kg-dry	1	5/23/2014 01:22 PM
Benzo(a)pyrene	ND		7.9	µg/Kg-dry	1	5/23/2014 01:22 PM
Benzo(b)fluoranthene	ND		7.9	µg/Kg-dry	1	5/23/2014 01:22 PM
Benzo(g,h,i)perylene	ND		7.9	µg/Kg-dry	1	5/23/2014 01:22 PM
Benzo(k)fluoranthene	ND		7.9	µg/Kg-dry	1	5/23/2014 01:22 PM
Chrysene	ND		7.9	µg/Kg-dry	1	5/23/2014 01:22 PM

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

ALS Group USA, Corp

Date: 27-May-14

Client: HRL Compliance Solutions, Inc

Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

Work Order: 14051082

Sample ID: East Wall 4'

Lab ID: 14051082-03

Collection Date: 5/20/2014 02:46 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.9	µg/Kg-dry	1	5/23/2014 01:22 PM
Fluoranthene	ND		7.9	µg/Kg-dry	1	5/23/2014 01:22 PM
Fluorene	ND		7.9	µg/Kg-dry	1	5/23/2014 01:22 PM
Indeno(1,2,3-cd)pyrene	ND		7.9	µg/Kg-dry	1	5/23/2014 01:22 PM
Naphthalene	ND		7.9	µg/Kg-dry	1	5/23/2014 01:22 PM
Pyrene	ND		7.9	µg/Kg-dry	1	5/23/2014 01:22 PM
Surr: 2-Fluorobiphenyl	66.1		12-100	%REC	1	5/23/2014 01:22 PM
Surr: 4-Terphenyl-d14	95.4		25-137	%REC	1	5/23/2014 01:22 PM
Surr: Nitrobenzene-d5	68.3		37-107	%REC	1	5/23/2014 01:22 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 5/22/14	Analyst: BG
Benzene	ND		36	µg/Kg-dry	1	5/22/2014 08:13 PM
Ethylbenzene	ND		36	µg/Kg-dry	1	5/22/2014 08:13 PM
m,p-Xylene	ND		71	µg/Kg-dry	1	5/22/2014 08:13 PM
o-Xylene	ND		36	µg/Kg-dry	1	5/22/2014 08:13 PM
Toluene	ND		36	µg/Kg-dry	1	5/22/2014 08:13 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	5/22/2014 08:13 PM
Surr: 1,2-Dichloroethane-d4	104		70-130	%REC	1	5/22/2014 08:13 PM
Surr: 4-Bromofluorobenzene	100		70-130	%REC	1	5/22/2014 08:13 PM
Surr: Dibromofluoromethane	92.6		70-130	%REC	1	5/22/2014 08:13 PM
Surr: Toluene-d8	100		70-130	%REC	1	5/22/2014 08:13 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 5/23/14	Analyst: JB
Electrical Conductivity @ Saturation	4.3		0.050	mmhos/cm @2	10	5/27/2014 07:00 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	12		0.59	mg/Kg-dry	1	5/27/2014 08:01 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 5/23/14	Analyst: JJ
Chromium, Hexavalent	ND		0.58	mg/Kg-dry	1	5/23/2014 12:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	16		0.050	% of sample	1	5/21/2014 07:34 PM
PH			SW9045D		Prep: EXTRACT / 5/22/14	Analyst: AT
pH	8.2			s.u.	1	5/22/2014 04:42 PM

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

ALS Group USA, Corp

Date: 27-May-14

Client: HRL Compliance Solutions, Inc

Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

Work Order: 14051082

Sample ID: West Wall 4'

Lab ID: 14051082-04

Collection Date: 5/20/2014 02:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 5/22/14	Analyst: IT
DRO (C10-C28)	69		4.6	mg/Kg-dry	1	5/22/2014 09:43 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>103</i>		<i>39-133</i>	<i>%REC</i>	1	5/22/2014 09:43 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 5/22/14	Analyst: IT
GRO (C6-C10)	ND		2.8	mg/Kg-dry	1	5/22/2014 08:17 PM
<i>Surr: Toluene-d8</i>	<i>111</i>		<i>50-150</i>	<i>%REC</i>	1	5/22/2014 08:17 PM
MERCURY BY CVAA			SW7471		Prep: SW7471 / 5/22/14	Analyst: LR
Mercury	0.022		0.014	mg/Kg-dry	1	5/22/2014 12:55 PM
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 5/22/14	Analyst: ML
Arsenic	6.8		2.1	mg/Kg-dry	5	5/22/2014 06:50 PM
Barium	180		2.1	mg/Kg-dry	5	5/22/2014 06:50 PM
Cadmium	ND		0.85	mg/Kg-dry	5	5/22/2014 06:50 PM
Chromium	13		2.1	mg/Kg-dry	5	5/22/2014 06:50 PM
Copper	15		2.1	mg/Kg-dry	5	5/22/2014 06:50 PM
Lead	9.8		2.1	mg/Kg-dry	5	5/22/2014 06:50 PM
Nickel	17		2.1	mg/Kg-dry	5	5/22/2014 06:50 PM
Selenium	ND		2.1	mg/Kg-dry	5	5/22/2014 06:50 PM
Silver	ND		2.1	mg/Kg-dry	5	5/22/2014 06:50 PM
Zinc	61		4.3	mg/Kg-dry	5	5/22/2014 06:50 PM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep: USDA Method 20B / 5/23/14	Analyst: RH
Calcium	410		10	mg/L	20	5/24/2014 11:41 AM
Magnesium	180		4.0	mg/L	20	5/24/2014 11:41 AM
Sodium	2,500		4.0	mg/L	20	5/24/2014 11:41 AM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 5/23/14	Analyst: RH
Sodium Adsorption Ratio	25		0.010	none	1	5/24/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3541 / 5/22/14	Analyst: RM
Acenaphthene	ND		7.4	µg/Kg-dry	1	5/23/2014 01:42 PM
Acenaphthylene	ND		7.4	µg/Kg-dry	1	5/23/2014 01:42 PM
Anthracene	ND		7.4	µg/Kg-dry	1	5/23/2014 01:42 PM
Benzo(a)anthracene	ND		7.4	µg/Kg-dry	1	5/23/2014 01:42 PM
Benzo(a)pyrene	ND		7.4	µg/Kg-dry	1	5/23/2014 01:42 PM
Benzo(b)fluoranthene	ND		7.4	µg/Kg-dry	1	5/23/2014 01:42 PM
Benzo(g,h,i)perylene	ND		7.4	µg/Kg-dry	1	5/23/2014 01:42 PM
Benzo(k)fluoranthene	ND		7.4	µg/Kg-dry	1	5/23/2014 01:42 PM
Chrysene	ND		7.4	µg/Kg-dry	1	5/23/2014 01:42 PM

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

ALS Group USA, Corp

Date: 27-May-14

Client: HRL Compliance Solutions, Inc

Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

Work Order: 14051082

Sample ID: West Wall 4'

Lab ID: 14051082-04

Collection Date: 5/20/2014 02:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.4	µg/Kg-dry	1	5/23/2014 01:42 PM
Fluoranthene	ND		7.4	µg/Kg-dry	1	5/23/2014 01:42 PM
Fluorene	ND		7.4	µg/Kg-dry	1	5/23/2014 01:42 PM
Indeno(1,2,3-cd)pyrene	ND		7.4	µg/Kg-dry	1	5/23/2014 01:42 PM
Naphthalene	ND		7.4	µg/Kg-dry	1	5/23/2014 01:42 PM
Pyrene	ND		7.4	µg/Kg-dry	1	5/23/2014 01:42 PM
Surr: 2-Fluorobiphenyl	72.4		12-100	%REC	1	5/23/2014 01:42 PM
Surr: 4-Terphenyl-d14	101		25-137	%REC	1	5/23/2014 01:42 PM
Surr: Nitrobenzene-d5	70.2		37-107	%REC	1	5/23/2014 01:42 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 5/22/14	Analyst: BG
Benzene	ND		34	µg/Kg-dry	1	5/22/2014 08:38 PM
Ethylbenzene	ND		34	µg/Kg-dry	1	5/22/2014 08:38 PM
m,p-Xylene	ND		68	µg/Kg-dry	1	5/22/2014 08:38 PM
o-Xylene	ND		34	µg/Kg-dry	1	5/22/2014 08:38 PM
Toluene	ND		34	µg/Kg-dry	1	5/22/2014 08:38 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	5/22/2014 08:38 PM
Surr: 1,2-Dichloroethane-d4	103		70-130	%REC	1	5/22/2014 08:38 PM
Surr: 4-Bromofluorobenzene	101		70-130	%REC	1	5/22/2014 08:38 PM
Surr: Dibromofluoromethane	91.3		70-130	%REC	1	5/22/2014 08:38 PM
Surr: Toluene-d8	100		70-130	%REC	1	5/22/2014 08:38 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 5/23/14	Analyst: JB
Electrical Conductivity @ Saturation	15		0.050	mmhos/cm @2	10	5/27/2014 07:00 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	13		0.57	mg/Kg-dry	1	5/27/2014 08:01 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 5/23/14	Analyst: JJ
Chromium, Hexavalent	ND		0.56	mg/Kg-dry	1	5/23/2014 12:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	12		0.050	% of sample	1	5/21/2014 07:34 PM
PH			SW9045D		Prep: EXTRACT / 5/22/14	Analyst: AT
pH	8.0			s.u.	1	5/22/2014 04:42 PM

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

ALS Group USA, Corp

Date: 27-May-14

Client: HRL Compliance Solutions, Inc

Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

Work Order: 14051082

Sample ID: Footprint 8'

Lab ID: 14051082-05

Collection Date: 5/20/2014 01:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 5/22/14	Analyst: IT
DRO (C10-C28)	49		4.6	mg/Kg-dry	1	5/22/2014 07:43 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>88.5</i>		<i>39-133</i>	<i>%REC</i>	1	5/22/2014 07:43 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 5/22/14	Analyst: IT
GRO (C6-C10)	300		2.8	mg/Kg-dry	1	5/22/2014 08:43 PM
<i>Surr: Toluene-d8</i>	<i>113</i>		<i>50-150</i>	<i>%REC</i>	1	5/22/2014 08:43 PM
MERCURY BY CVAA			SW7471		Prep: SW7471 / 5/22/14	Analyst: LR
Mercury	0.032		0.015	mg/Kg-dry	1	5/22/2014 12:57 PM
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 5/22/14	Analyst: ML
Arsenic	9.5		2.1	mg/Kg-dry	5	5/22/2014 06:56 PM
Barium	170		2.1	mg/Kg-dry	5	5/22/2014 06:56 PM
Cadmium	ND		0.83	mg/Kg-dry	5	5/22/2014 06:56 PM
Chromium	6.8		2.1	mg/Kg-dry	5	5/22/2014 06:56 PM
Copper	13		2.1	mg/Kg-dry	5	5/22/2014 06:56 PM
Lead	11		2.1	mg/Kg-dry	5	5/22/2014 06:56 PM
Nickel	13		2.1	mg/Kg-dry	5	5/22/2014 06:56 PM
Selenium	3.1		2.1	mg/Kg-dry	5	5/22/2014 06:56 PM
Silver	ND		2.1	mg/Kg-dry	5	5/22/2014 06:56 PM
Zinc	54		4.2	mg/Kg-dry	5	5/22/2014 06:56 PM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep: USDA Method 20B / 5/23/14	Analyst: RH
Calcium	410		100	mg/L	200	5/24/2014 11:48 AM
Magnesium	570		40	mg/L	200	5/24/2014 11:48 AM
Sodium	5,900		40	mg/L	200	5/24/2014 11:48 AM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 5/23/14	Analyst: RH
Sodium Adsorption Ratio	44		0.010	none	1	5/24/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3541 / 5/22/14	Analyst: RM
Acenaphthene	ND		7.3	µg/Kg-dry	1	5/23/2014 02:02 PM
Acenaphthylene	ND		7.3	µg/Kg-dry	1	5/23/2014 02:02 PM
Anthracene	ND		7.3	µg/Kg-dry	1	5/23/2014 02:02 PM
Benzo(a)anthracene	ND		7.3	µg/Kg-dry	1	5/23/2014 02:02 PM
Benzo(a)pyrene	ND		7.3	µg/Kg-dry	1	5/23/2014 02:02 PM
Benzo(b)fluoranthene	9.9		7.3	µg/Kg-dry	1	5/23/2014 02:02 PM
Benzo(g,h,i)perylene	13		7.3	µg/Kg-dry	1	5/23/2014 02:02 PM
Benzo(k)fluoranthene	ND		7.3	µg/Kg-dry	1	5/23/2014 02:02 PM
Chrysene	ND		7.3	µg/Kg-dry	1	5/23/2014 02:02 PM

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

ALS Group USA, Corp

Date: 27-May-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Parachute Creek 3 PBV Removal 5.20.14
Sample ID: Footprint 8'
Collection Date: 5/20/2014 01:20 PM

Work Order: 14051082
Lab ID: 14051082-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.3	µg/Kg-dry	1	5/23/2014 02:02 PM
Fluoranthene	ND		7.3	µg/Kg-dry	1	5/23/2014 02:02 PM
Fluorene	ND		7.3	µg/Kg-dry	1	5/23/2014 02:02 PM
Indeno(1,2,3-cd)pyrene	ND		7.3	µg/Kg-dry	1	5/23/2014 02:02 PM
Naphthalene	36		7.3	µg/Kg-dry	1	5/23/2014 02:02 PM
Pyrene	ND		7.3	µg/Kg-dry	1	5/23/2014 02:02 PM
Surr: 2-Fluorobiphenyl	72.4		12-100	%REC	1	5/23/2014 02:02 PM
Surr: 4-Terphenyl-d14	88.2		25-137	%REC	1	5/23/2014 02:02 PM
Surr: Nitrobenzene-d5	74.7		37-107	%REC	1	5/23/2014 02:02 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 5/22/14	Analyst: BG	
Benzene	320		34	µg/Kg-dry	1	5/22/2014 07:47 PM
Ethylbenzene	1,500		34	µg/Kg-dry	1	5/22/2014 07:47 PM
m,p-Xylene	29,000		340	µg/Kg-dry	5	5/23/2014 05:53 PM
o-Xylene	4,600		34	µg/Kg-dry	1	5/22/2014 07:47 PM
Toluene	7,600		170	µg/Kg-dry	5	5/23/2014 05:53 PM
Xylenes, Total	33,000		510	µg/Kg-dry	5	5/23/2014 05:53 PM
Surr: 1,2-Dichloroethane-d4	102		70-130	%REC	1	5/22/2014 07:47 PM
Surr: 1,2-Dichloroethane-d4	96.9		70-130	%REC	5	5/23/2014 05:53 PM
Surr: 4-Bromofluorobenzene	99.0		70-130	%REC	1	5/22/2014 07:47 PM
Surr: 4-Bromofluorobenzene	101		70-130	%REC	5	5/23/2014 05:53 PM
Surr: Dibromofluoromethane	97.1		70-130	%REC	5	5/23/2014 05:53 PM
Surr: Dibromofluoromethane	92.1		70-130	%REC	1	5/22/2014 07:47 PM
Surr: Toluene-d8	103		70-130	%REC	5	5/23/2014 05:53 PM
Surr: Toluene-d8	123		70-130	%REC	1	5/22/2014 07:47 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 5/23/14	Analyst: JB	
Electrical Conductivity @ Saturation	33		0.050	mmhos/cm @2	10	5/27/2014 07:00 AM
CHROMIUM, TRIVALENT			CALCULATION	Analyst: JJG		
Chromium, Trivalent	6.8		0.56	mg/Kg-dry	1	5/27/2014 08:01 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 5/23/14	Analyst: JJ	
Chromium, Hexavalent	ND		0.56	mg/Kg-dry	1	5/23/2014 12:00 PM
MOISTURE			A2540 G	Analyst: AT		
Moisture	11		0.050	% of sample	1	5/21/2014 07:34 PM
PH			SW9045D	Prep: EXTRACT / 5/22/14	Analyst: AT	
pH	8.0			s.u.	1	5/22/2014 04:42 PM

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

Client: HRL Compliance Solutions, Inc

QC BATCH REPORT

Work Order: 14051082

Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

Batch ID: **58908** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-58908-58908				Units: mg/Kg		Analysis Date: 5/22/2014 05:43 PM		
Client ID:		Run ID: GC8_140522A		SeqNo: 2779846		Prep Date: 5/22/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
<i>Surr: 4-Terphenyl-d14</i>	1.701	0	1.667	0	102	39-133	0			

LCS		Sample ID: DLCSS1-58908-58908				Units: mg/Kg		Analysis Date: 5/22/2014 06:13 PM		
Client ID:		Run ID: GC8_140522A		SeqNo: 2779847		Prep Date: 5/22/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	142.9	4.2	166.7	0	85.7	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.506	0	1.667	0	90.4	39-133	0			

MS		Sample ID: 14051082-05B MS				Units: mg/Kg		Analysis Date: 5/22/2014 06:43 PM		
Client ID: Footprint 8'		Run ID: GC8_140522A		SeqNo: 2779848		Prep Date: 5/22/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	315.3	8.2	327.7	43.37	83	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	3.322	0	3.277	0	101	39-133	0			

MSD		Sample ID: 14051082-05B MSD				Units: mg/Kg		Analysis Date: 5/22/2014 07:13 PM		
Client ID: Footprint 8'		Run ID: GC8_140522A		SeqNo: 2779849		Prep Date: 5/22/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	300.2	8.0	319	43.37	80.5	48-110	315.3	4.9	30	
<i>Surr: 4-Terphenyl-d14</i>	3.024	0	3.19	0	94.8	39-133	3.322	9.4	30	

The following samples were analyzed in this batch:

14051082-01B	14051082-02B	14051082-03B
14051082-04B	14051082-05B	

Client: HRL Compliance Solutions, Inc
 Work Order: 14051082
 Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

QC BATCH REPORT

Batch ID: **58905** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-58905-58905				Units: µg/Kg		Analysis Date: 5/22/2014 05:19 PM		
Client ID:		Run ID: GC9_140522A		SeqNo: 2776313		Prep Date: 5/22/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
<i>Surr: Toluene-d8</i>	5004	0	5000	0	100	50-150	0			

LCS		Sample ID: LCS-58905-58905				Units: µg/Kg		Analysis Date: 5/22/2014 04:03 PM		
Client ID:		Run ID: GC9_140522A		SeqNo: 2776312		Prep Date: 5/22/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	517200	2,500	500000	0	103	70-130	0			
<i>Surr: Toluene-d8</i>	6152	0	5000	0	123	50-150	0			

MS		Sample ID: 14051082-01A MS				Units: µg/Kg		Analysis Date: 5/22/2014 09:59 PM		
Client ID: North Wall 4'		Run ID: GC9_140522A		SeqNo: 2779863		Prep Date: 5/22/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	514200	2,500	500000	0	103	70-130	0			
<i>Surr: Toluene-d8</i>	5673	0	5000	0	113	50-150	0			

MSD		Sample ID: 14051082-01A MSD				Units: µg/Kg		Analysis Date: 5/22/2014 10:25 PM		
Client ID: North Wall 4'		Run ID: GC9_140522A		SeqNo: 2779864		Prep Date: 5/22/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	495900	2,500	500000	0	99.2	70-130	514200	3.62	30	
<i>Surr: Toluene-d8</i>	5144	0	5000	0	103	50-150	5673	9.78	30	

The following samples were analyzed in this batch:

14051082-01A	14051082-02A	14051082-03A
14051082-04A	14051082-05A	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051082
Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

QC BATCH REPORT

Batch ID: **58886** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-58886-58886				Units: mg/Kg		Analysis Date: 5/22/2014 01:39 PM		
Client ID:		Run ID: ICPMS1_140522A			SeqNo: 2776457		Prep Date: 5/22/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	ND	0.25								
Nickel	ND	0.25								
Silver	ND	0.25								
Zinc	ND	0.50								

MBLK		Sample ID: MBLK-58886-58886				Units: mg/Kg		Analysis Date: 5/23/2014 04:10 PM		
Client ID:		Run ID: ICPMS1_140523A			SeqNo: 2778000		Prep Date: 5/22/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	ND	0.25								

LCS		Sample ID: LCS-58886-58886				Units: mg/Kg		Analysis Date: 5/22/2014 01:45 PM		
Client ID:		Run ID: ICPMS1_140522A			SeqNo: 2776458		Prep Date: 5/22/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.212	0.25	5	0	84.2	80-120	0			
Barium	4.72	0.25	5	0	94.4	80-120	0			
Cadmium	4.508	0.10	5	0	90.2	80-120	0			
Chromium	4.824	0.25	5	0	96.5	80-120	0			
Copper	4.624	0.25	5	0	92.5	80-120	0			
Lead	4.78	0.25	5	0	95.6	80-120	0			
Nickel	4.705	0.25	5	0	94.1	80-120	0			
Silver	4.718	0.25	5	0	94.4	80-120	0			
Zinc	4.002	0.50	5	0	80	80-120	0			

LCS		Sample ID: LCS-58886-58886				Units: mg/Kg		Analysis Date: 5/23/2014 04:17 PM		
Client ID:		Run ID: ICPMS1_140523A			SeqNo: 2778001		Prep Date: 5/22/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	4.198	0.25	5	0	84	80-120	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14051082
 Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

QC BATCH REPORT

Batch ID: 58886 Instrument ID ICPMS1 Method: SW6020A

MS		Sample ID: 14051022-01CMS				Units: mg/Kg		Analysis Date: 5/22/2014 01:57 PM		
Client ID:		Run ID: ICPMS1_140522A			SeqNo: 2776460		Prep Date: 5/22/2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.7	2.0	8.197	5.944	94.6	75-125	0			
Barium	54.88	2.0	8.197	43.91	134	75-125	0			SO
Cadmium	8.283	0.82	8.197	0.1025	99.8	75-125	0			
Chromium	27.61	2.0	8.197	16.71	133	75-125	0			S
Copper	24	2.0	8.197	16.62	90.1	75-125	0			
Lead	17.41	2.0	8.197	9.252	99.5	75-125	0			
Nickel	29.57	2.0	8.197	22.92	81.2	75-125	0			
Silver	7.213	2.0	8.197	0.06626	87.2	75-125	0			
Zinc	129.7	4.1	8.197	39.64	1100	75-125	0			SO

MS		Sample ID: 14051022-01CMS				Units: mg/Kg		Analysis Date: 5/23/2014 04:00 PM		
Client ID:		Run ID: ICPMS1_140523A			SeqNo: 2777999		Prep Date: 5/22/2014		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	9.148	20	8.197	-0.2826	115	75-125	0			J

MSD		Sample ID: 14051022-01CMSD				Units: mg/Kg		Analysis Date: 5/22/2014 02:03 PM		
Client ID:		Run ID: ICPMS1_140522A			SeqNo: 2776461		Prep Date: 5/22/2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.33	2.1	8.224	5.944	89.8	75-125	13.7	2.71	25	
Barium	57.4	2.1	8.224	43.91	164	75-125	54.88	4.5	25	SO
Cadmium	7.693	0.82	8.224	0.1025	92.3	75-125	8.283	7.38	25	
Chromium	27.5	2.1	8.224	16.71	131	75-125	27.61	0.372	25	S
Copper	23.23	2.1	8.224	16.62	80.4	75-125	24	3.29	25	
Lead	16.5	2.1	8.224	9.252	88.2	75-125	17.41	5.34	25	
Nickel	30.93	2.1	8.224	22.92	97.4	75-125	29.57	4.48	25	
Silver	6.937	2.1	8.224	0.06626	83.5	75-125	7.213	3.91	25	
Zinc	45.31	4.1	8.224	39.64	69	75-125	129.7	96.4	25	SRO

MSD		Sample ID: 14051022-01CMSD				Units: mg/Kg		Analysis Date: 5/23/2014 04:41 PM		
Client ID:		Run ID: ICPMS1_140523A			SeqNo: 2778720		Prep Date: 5/22/2014		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	10.31	21	8.224	-0.2826	129	75-125	9.148	0	25	JS

The following samples were analyzed in this batch:

14051082-01B	14051082-02B	14051082-03B
14051082-04B	14051082-05B	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051082
Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

QC BATCH REPORT

Batch ID: **58938** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 14051070-03BDUP				Units: mg/L		Analysis Date: 5/24/2014 11:17 AM		
Client ID:		Run ID: ICPMS2_140524A				SeqNo: 2779389		Prep Date: 5/23/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	51.56	10	0	0	0	0-0	38.44	29.2		
Magnesium	12.27	4.0	0	0	0	0-0	9.976	20.7		
Sodium	45.98	4.0	0	0	0	0-0	38.6	17.5		

DUP		Sample ID: 14051070-03BDUP				Units: none		Analysis Date: 5/24/2014		
Client ID:		Run ID: SAR_140524A				SeqNo: 2781700		Prep Date: 5/23/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	1.494	0.010	0	0	0		1.435	4.07	50	

The following samples were analyzed in this batch:

14051082-01C	14051082-02C	14051082-03C
14051082-04C	14051082-05C	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051082
Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

QC BATCH REPORT

Batch ID: **58907** Instrument ID **SVMS7** Method: **SW8270**

MBLK		Sample ID: SBLKS1-58907-58907				Units: µg/Kg		Analysis Date: 5/23/2014 10:33 AM		
Client ID:		Run ID: SVMS7_140523A		SeqNo: 2781301		Prep Date: 5/22/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
<i>Surr: 2-Fluorobiphenyl</i>	1148	0	1667	0	68.9	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1776	0	1667	0	107	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1221	0	1667	0	73.3	37-107	0			

LCS		Sample ID: SLCSS1-58907-58907				Units: µg/Kg		Analysis Date: 5/23/2014 10:12 AM		
Client ID:		Run ID: SVMS7_140523A		SeqNo: 2781300		Prep Date: 5/22/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	538.7	6.7	666.7	0	80.8	45-110	0			
Acenaphthylene	490.7	6.7	666.7	0	73.6	45-105	0			
Anthracene	551.7	6.7	666.7	0	82.7	55-105	0			
Benzo(a)anthracene	606.7	6.7	666.7	0	91	50-110	0			
Benzo(a)pyrene	584.7	6.7	666.7	0	87.7	50-110	0			
Benzo(b)fluoranthene	627.7	6.7	666.7	0	94.1	45-115	0			
Benzo(g,h,i)perylene	629.3	6.7	666.7	0	94.4	40-125	0			
Benzo(k)fluoranthene	631	6.7	666.7	0	94.6	45-115	0			
Chrysene	601	6.7	666.7	0	90.1	55-110	0			
Dibenzo(a,h)anthracene	544	6.7	666.7	0	81.6	40-125	0			
Fluoranthene	585.3	6.7	666.7	0	87.8	55-115	0			
Fluorene	476.7	6.7	666.7	0	71.5	50-110	0			
Indeno(1,2,3-cd)pyrene	520.3	6.7	666.7	0	78	40-120	0			
Naphthalene	467	6.7	666.7	0	70	40-105	0			
Pyrene	651.3	6.7	666.7	0	97.7	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1168	0	1667	0	70.1	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	2038	0	1667	0	122	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1358	0	1667	0	81.5	37-107	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14051082
 Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

QC BATCH REPORT

Batch ID: **58907** Instrument ID **SVMS7** Method: **SW8270**

MS				Sample ID: 14051098-01C MS		Units: µg/Kg		Analysis Date: 5/23/2014 11:21 AM		
Client ID:		Run ID: SVMS8_140523A		SeqNo: 2781506		Prep Date: 5/22/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1062	13	1284	0	82.7	45-110	0			
Acenaphthylene	1042	13	1284	0	81.2	45-105	0			
Anthracene	1146	13	1284	3.552	89	55-105	0			
Benzo(a)anthracene	1201	13	1284	12.59	92.6	50-110	0			
Benzo(a)pyrene	1240	13	1284	11.62	95.6	50-110	0			
Benzo(b)fluoranthene	1157	13	1284	13.56	89.1	45-115	0			
Benzo(g,h,i)perylene	1277	13	1284	22.28	97.8	40-125	0			
Benzo(k)fluoranthene	1142	13	1284	0	88.9	45-115	0			
Chrysene	1166	13	1284	26.8	88.8	55-110	0			
Dibenzo(a,h)anthracene	1206	13	1284	4.197	93.6	40-125	0			
Fluoranthene	1081	13	1284	17.44	82.8	55-115	0			
Fluorene	1063	13	1284	0	82.8	50-110	0			
Indeno(1,2,3-cd)pyrene	1317	13	1284	8.718	102	40-120	0			
Naphthalene	894.9	13	1284	0	69.7	40-105	0			
Pyrene	1297	13	1284	30.03	98.7	45-125	0			
Surr: 2-Fluorobiphenyl	2360	0	3210	0	73.5	12-100	0			
Surr: 4-Terphenyl-d14	3456	0	3210	0	108	25-137	0			
Surr: Nitrobenzene-d5	2441	0	3210	0	76	37-107	0			

MSD				Sample ID: 14051098-01C MSD		Units: µg/Kg		Analysis Date: 5/23/2014 11:41 AM		
Client ID:		Run ID: SVMS8_140523A		SeqNo: 2781507		Prep Date: 5/22/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1020	13	1305	0	78.1	45-110	1062	3.99	30	
Acenaphthylene	1001	13	1305	0	76.7	45-105	1042	4.04	30	
Anthracene	1177	13	1305	3.552	89.9	55-105	1146	2.61	30	
Benzo(a)anthracene	1242	13	1305	12.59	94.2	50-110	1201	3.36	30	
Benzo(a)pyrene	1271	13	1305	11.62	96.5	50-110	1240	2.49	30	
Benzo(b)fluoranthene	1189	13	1305	13.56	90.1	45-115	1157	2.71	30	
Benzo(g,h,i)perylene	1311	13	1305	22.28	98.7	40-125	1277	2.61	30	
Benzo(k)fluoranthene	1176	13	1305	0	90	45-115	1142	2.89	30	
Chrysene	1191	13	1305	26.8	89.1	55-110	1166	2.05	30	
Dibenzo(a,h)anthracene	1261	13	1305	4.197	96.3	40-125	1206	4.5	30	
Fluoranthene	1055	13	1305	17.44	79.5	55-115	1081	2.4	30	
Fluorene	1066	13	1305	0	81.6	50-110	1063	0.265	30	
Indeno(1,2,3-cd)pyrene	1370	13	1305	8.718	104	40-120	1317	3.98	30	
Naphthalene	810	13	1305	0	62	40-105	894.9	9.95	30	
Pyrene	1450	13	1305	30.03	109	45-125	1297	11.2	30	
Surr: 2-Fluorobiphenyl	2190	0	3264	0	67.1	12-100	2360	7.44	40	
Surr: 4-Terphenyl-d14	4032	0	3264	0	124	25-137	3456	15.4	40	
Surr: Nitrobenzene-d5	2283	0	3264	0	70	37-107	2441	6.67	40	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051082
Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

QC BATCH REPORT

Batch ID: **58907** Instrument ID **SVMS7** Method: **SW8270**

The following samples were analyzed in this batch:

14051082-01B	14051082-02B	14051082-03B
14051082-04B	14051082-05B	

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14051082
 Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

QC BATCH REPORT

Batch ID: **58904** Instrument ID **VMS6** Method: **SW8260B**

MBLK		Sample ID: MBLK-58904-58904				Units: µg/Kg		Analysis Date: 5/22/2014 03:54 PM		
Client ID:		Run ID: VMS6_140522A		SeqNo: 2777015		Prep Date: 5/22/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1048</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>995.5</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>929</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>92.9</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>992</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.2</i>	<i>70-130</i>	<i>0</i>			

LCS		Sample ID: LCS-58904-58904				Units: µg/Kg		Analysis Date: 5/22/2014 02:36 PM		
Client ID:		Run ID: VMS6_140522A		SeqNo: 2777014		Prep Date: 5/22/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1022	30	1000	0	102	75-125	0			
Ethylbenzene	1030	30	1000	0	103	75-125	0			
m,p-Xylene	2038	60	2000	0	102	80-125	0			
o-Xylene	1003	30	1000	0	100	75-125	0			
Toluene	992	30	1000	0	99.2	70-125	0			
Xylenes, Total	3041	90	3000	0	101	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1018</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>1016</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</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: Toluene-d8</i>	<i>1004</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>			

The following samples were analyzed in this batch:

14051082-01A	14051082-02A	14051082-03A
14051082-04A	14051082-05A	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051082
Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

QC BATCH REPORT

Batch ID: **58931** Instrument ID **WETCHEM** Method: **SW9045D**

LCS	Sample ID: LCS-58931-58931		Units: s.u.		Analysis Date: 5/22/2014 04:42 PM					
Client ID:	Run ID: WETCHEM_140522P		SeqNo: 2776037		Prep Date: 5/22/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	3.99	0	4	0	99.8	90-110	0			

DUP	Sample ID: 1405981-01B DUP		Units: s.u.		Analysis Date: 5/22/2014 04:42 PM					
Client ID:	Run ID: WETCHEM_140522P		SeqNo: 2776053		Prep Date: 5/22/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.33	0	0	0	0	0-0	8.27	0.723	20	

DUP	Sample ID: 14051098-01C DUP		Units: s.u.		Analysis Date: 5/22/2014 04:42 PM					
Client ID:	Run ID: WETCHEM_140522P		SeqNo: 2776063		Prep Date: 5/22/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.99	0	0	0	0	0-0	7.9	1.13	20	H

The following samples were analyzed in this batch:

14051082-01B	14051082-02B	14051082-03B
14051082-04B	14051082-05B	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051082
Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

QC BATCH REPORT

Batch ID: **58938** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP	Sample ID: 14051070-03B DUP		Units: mmhos/cm @25°		Analysis Date: 5/27/2014 07:00 AM					
Client ID:	Run ID: WETCHEM_140527A		SeqNo: 2779739		Prep Date: 5/23/2014 DF: 10					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.479	0.050	0	0	0		0.46	4.05	50	

The following samples were analyzed in this batch:

14051082-01C	14051082-02C	14051082-03C
14051082-04C	14051082-05C	

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14051082
 Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

QC BATCH REPORT

Batch ID: **58945** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-58945-58945		Units: mg/Kg		Analysis Date: 5/23/2014 12:00 PM					
Client ID:	Run ID: WETCHEM_140523A		SeqNo: 2777166		Prep Date: 5/23/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.50

LCS	Sample ID: LCS-58945-58945		Units: mg/Kg		Analysis Date: 5/23/2014 12:00 PM					
Client ID:	Run ID: WETCHEM_140523A		SeqNo: 2777167		Prep Date: 5/23/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.701 0.50 1.992 0 85.4 80-120 0

MS	Sample ID: 14051124-01BMS		Units: mg/Kg		Analysis Date: 5/23/2014 12:00 PM					
Client ID:	Run ID: WETCHEM_140523A		SeqNo: 2777174		Prep Date: 5/23/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.808 0.50 2 0.336 73.6 75-125 0 S

MS	Sample ID: 14051124-01BMSI		Units: mg/Kg		Analysis Date: 5/23/2014 12:00 PM					
Client ID:	Run ID: WETCHEM_140523A		SeqNo: 2777176		Prep Date: 5/23/2014 DF: 100					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 882 50 1043 0.336 84.5 75-125 0

MSD	Sample ID: 14051124-01BMSD		Units: mg/Kg		Analysis Date: 5/23/2014 12:00 PM					
Client ID:	Run ID: WETCHEM_140523A		SeqNo: 2777175		Prep Date: 5/23/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.756 0.50 2 0.336 71 75-125 1.808 2.92 20 S

The following samples were analyzed in this batch:

14051082-01B	14051082-02B	14051082-03B
14051082-04B	14051082-05B	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051082
Project: Caerus Parachute Creek 3 PBV Removal 5.20.14

QC BATCH REPORT

Batch ID: **R141230** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R141230				Units: % of sample			Analysis Date: 5/21/2014 07:34 PM		
Client ID:	Run ID: MOIST_140521A			SeqNo: 2774510		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-R141230				Units: % of sample			Analysis Date: 5/21/2014 07:34 PM		
Client ID:	Run ID: MOIST_140521A			SeqNo: 2774509		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 99.99 0.050 100 0 100 99.5-100.5 0

DUP	Sample ID: 14051070-01A DUP				Units: % of sample			Analysis Date: 5/21/2014 07:34 PM		
Client ID:	Run ID: MOIST_140521A			SeqNo: 2774500		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 8.67 0.050 0 0 0 0-0 8.81 1.6 20

DUP	Sample ID: 14051070-02A DUP				Units: % of sample			Analysis Date: 5/21/2014 07:34 PM		
Client ID:	Run ID: MOIST_140521A			SeqNo: 2774502		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 7.66 0.050 0 0 0 0-0 7.27 5.22 20

The following samples were analyzed in this batch:

14051082-01B	14051082-02B	14051082-03B
14051082-04B	14051082-05B	

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) 399-8185

Chain-of-Custody

Form 20218

WORKORDER #	14051082
PAGE	1 of 1

PROJECT NAME	CAERUS PARACHUTE CREEK 3 PbV REMOVAL	SAMPLER	Casey Richardson	DATE	5-20-14	TURNAROUND	24 HOUR	DISPOSAL	(By Lab) or Return to Client
PROJECT No.	#13-199-17	SITE ID							
COMPANY NAME	HCSI	EDD FORMAT							
SEND REPORT TO	MARK MUMBY	PURCHASE ORDER							
ADDRESS	2385 F 1/2 Road	BILL TO COMPANY	Caerus Piceanca LLC						
CITY / STATE / ZIP	Grand Junction, CO. 81505	INVOICE ATTN TO	Ed Winters						
PHONE	970-243-3271	ADDRESS	120 Railroad Ave. Suite D						
FAX	970-243-3280	CITY / STATE / ZIP	Parachute, CO 81635						
E-MAIL	crichardson@hrci.com	PHONE	970-285-9606						
		FAX							
		E-MAIL	ewinters@caerusoilandgas.com						

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	DRO	GRO	BTEX	TOTAL METALS - TABEL 810-1	SEMI VOLS - PAH	SAR	EC	PH
1	NORTH WALL, 4'	SOIL	5-20-14	1400	3	8		X	X	X	X	X	X	X	X
2	SOUTH WALL, 4'			1440											
3	EAST WALL, 4'			1446											
4	WEST WALL, 4'			1405											
5	FOOTPRINT, 8'			1320											

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

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)
	<input checked="" type="checkbox"/> LEVEL III (Standard QC)
	<input type="checkbox"/> LEVEL III (Std QC + forms)
	<input type="checkbox"/> LEVEL IV (Std QC + forms + raw data)

3.4°C

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	5-20-14	1550
RECEIVED BY		Mark Mumby	5-20-	1600
RELINQUISHED BY		Kelly Wieranca	5-20-14	1630
RECEIVED BY		KELLY WIERANCA	5/21/14	1000
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **21-May-14 10:00**

Work Order: **14051082**

Received by: **KRW**

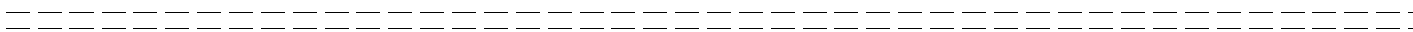
Checklist completed by Keith Wierenga 21-May-14
eSignature Date

Reviewed by: Ann Preston 21-May-14
eSignature Date

Matrices: Soil
 Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="3.4 C"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="5/21/2014 2:29:33 PM"/>		
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:	<input type="text"/>		

Login Notes:



Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:

From: (616) 399-8070
Sample Receiving
ALS Laboratory Group
3352 128th Avenue
Holland, MI 49424

Origin ID: GRRR



Ship Date: 20MAY14
ActWgt: 75.0 LB
CAD: 2264840/NET3490
Dims: 24 X 15 X 15 IN

Delivery Address Bar Code



SHIP TO: (616) 399-8070
sample receiving
ALS Laboratory Group
3352 128TH AVE

BILL SENDER

Ref # 052014-1
Invoice #
PO # Parachute
Dept #

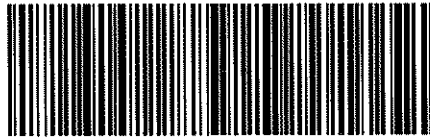
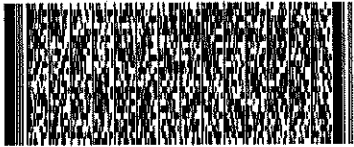
HOLLAND, MI 49424

WED - 21 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 7700 4512 5730
0201

49424
MI-US
GRR

68 GRRR



522G1R203F220

After printing this label:

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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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6 10 HD



05-Jun-2014

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

Re: **Caerus Parachute Creek 3 Backgrounds 5.22.14**

Work Order: **14051482**

Dear Mark,

ALS Environmental received 3 samples on 29-May-2014 10:30 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 15.

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 ALS

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: Caerus Parachute Creek 3 Backgrounds 5.22.14
Work Order: 14051482

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>
14051482-01	BKGD 01	Soil		5/22/2014 11:30	5/29/2014 10:30	<input type="checkbox"/>
14051482-02	BKGD 02	Soil		5/22/2014 11:34	5/29/2014 10:30	<input type="checkbox"/>
14051482-03	BKGD 03	Soil		5/22/2014 11:38	5/29/2014 10:30	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: Caerus Parachute Creek 3 Backgrounds 5.22.14
Work Order: 14051482

Case Narrative

Batch 59181 sample BKRD 02 MS/MSD recoveries for Arsenic were below control limits. The corresponding result in the parent sample may be biased low for Arsenic.

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
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: 05-Jun-14

Client: HRL Compliance Solutions, Inc**Project:** Caerus Parachute Creek 3 Backgrounds 5.22.14**Work Order:** 14051482**Sample ID:** BKGD 01**Lab ID:** 14051482-01**Collection Date:** 5/22/2014 11:30 AM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 5/30/14	Analyst: ML
Arsenic	6.3		2.2	mg/Kg-dry	5	5/30/2014 08:10 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	6.8		0.050	% of sample	1	5/29/2014 04:03 PM

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

ALS Group USA, Corp

Date: 05-Jun-14

Client: HRL Compliance Solutions, Inc**Project:** Caerus Parachute Creek 3 Backgrounds 5.22.14**Work Order:** 14051482**Sample ID:** BKGD 02**Lab ID:** 14051482-02**Collection Date:** 5/22/2014 11:34 AM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 5/30/14	Analyst: ML
Arsenic	7.1		2.1	mg/Kg-dry	5	5/30/2014 08:33 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	6.8		0.050	% of sample	1	5/29/2014 04:03 PM

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

ALS Group USA, Corp

Date: 05-Jun-14

Client: HRL Compliance Solutions, Inc
 Project: Caerus Parachute Creek 3 Backgrounds 5.22.14
 Sample ID: BKGD 03
 Collection Date: 5/22/2014 11:38 AM

Work Order: 14051482
 Lab ID: 14051482-03
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 5/30/14	Analyst: ML
Arsenic	6.8		2.2	mg/Kg-dry	5	5/30/2014 09:02 PM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep: USDA Method 20B / 6/2/14	Analyst: RH
Calcium	620		10	mg/L	20	6/3/2014 03:35 PM
Magnesium	40		4.0	mg/L	20	6/3/2014 03:35 PM
Sodium	45		4.0	mg/L	20	6/3/2014 03:35 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 6/2/14	Analyst: RH
Sodium Adsorption Ratio	0.47		0.010	none	1	6/3/2014
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 6/2/14	Analyst: JB
Electrical Conductivity @ Saturation	4.2		0.050	mmhos/cm @25	10	6/2/2014 04:15 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	7.9		0.050	% of sample	1	5/29/2014 04:03 PM
PH			SW9045D		Prep: EXTRACT / 5/29/14	Analyst: AT
pH	7.9			s.u.	1	5/29/2014 04:00 PM

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

Client: HRL Compliance Solutions, Inc

QC BATCH REPORT

Work Order: 14051482

Project: Caerus Parachute Creek 3 Backgrounds 5.22.14

Batch ID: **59181** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-59181-59181				Units: mg/Kg		Analysis Date: 5/30/2014 05:16 PM		
Client ID:		Run ID: ICPMS1_140530A		SeqNo: 2789009		Prep Date: 5/30/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								

LCS		Sample ID: LCS-59181-59181				Units: mg/Kg		Analysis Date: 5/30/2014 05:22 PM		
Client ID:		Run ID: ICPMS1_140530A		SeqNo: 2789010		Prep Date: 5/30/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.236	0.25	5	0	84.7	80-120	0			

MS		Sample ID: 14051482-02AMS				Units: mg/Kg		Analysis Date: 5/30/2014 08:45 PM		
Client ID: BKGD 02		Run ID: ICPMS1_140530A		SeqNo: 2789044		Prep Date: 5/30/2014		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.7	1.9	7.776	6.638	65	75-125	0			S

MSD		Sample ID: 14051482-02AMSD				Units: mg/Kg		Analysis Date: 5/30/2014 08:51 PM		
Client ID: BKGD 02		Run ID: ICPMS1_140530A		SeqNo: 2789045		Prep Date: 5/30/2014		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.28	1.9	7.704	6.638	73.2	75-125	11.7	4.85	25	S

The following samples were analyzed in this batch:

14051482-01A	14051482-02A	14051482-03A
--------------	--------------	--------------

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051482
Project: Caerus Parachute Creek 3 Backgrounds 5.22.14

QC BATCH REPORT

Batch ID: **59205** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 14051479-01CDUP				Units: mg/L		Analysis Date: 6/3/2014 03:17 PM		
Client ID:		Run ID: ICPMS2_140603A				SeqNo: 2791554		Prep Date: 6/2/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	84	10	0	0	0	0-0	88.78	5.53		
Magnesium	26.2	4.0	0	0	0	0-0	27.68	5.49		
Sodium	40.22	4.0	0	0	0	0-0	41.58	3.33		

DUP		Sample ID: 14051479-01CDUP				Units: none		Analysis Date: 6/3/2014		
Client ID:		Run ID: SAR_140603A				SeqNo: 2791558		Prep Date: 6/2/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.982	0.010	0	0	0		0.9876	0.565	50	

The following samples were analyzed in this batch:

14051482-03B

Client: HRL Compliance Solutions, Inc
Work Order: 14051482
Project: Caerus Parachute Creek 3 Backgrounds 5.22.14

QC BATCH REPORT

Batch ID: **59163** Instrument ID **WETCHEM** Method: **SW9045D**

LCS	Sample ID: LCS-59163-59163		Units: s.u.		Analysis Date: 5/29/2014 04:00 PM					
Client ID:	Run ID: WETCHEM_140529R		SeqNo: 2786008		Prep Date: 5/29/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 3.98 0 4 0 99.5 90-110 0

DUP	Sample ID: 14051403-01A DUP		Units: s.u.		Analysis Date: 5/29/2014 04:00 PM					
Client ID:	Run ID: WETCHEM_140529R		SeqNo: 2786012		Prep Date: 5/29/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 7.03 0 0 0 0 0-0 7.04 0.142 20

DUP	Sample ID: 14051481-01A DUP		Units: s.u.		Analysis Date: 5/29/2014 04:00 PM					
Client ID:	Run ID: WETCHEM_140529R		SeqNo: 2786020		Prep Date: 5/29/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 8.12 0 0 0 0 0-0 8.13 0.123 20

The following samples were analyzed in this batch:

14051482-03A

Client: HRL Compliance Solutions, Inc
Work Order: 14051482
Project: Caerus Parachute Creek 3 Backgrounds 5.22.14

QC BATCH REPORT

Batch ID: **59205** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP	Sample ID: 14051479-01C DUP				Units: mmhos/cm @25°C		Analysis Date: 6/2/2014 04:15 PM			
Client ID:	Run ID: WETCHEM_140602L			SeqNo: 2789851		Prep Date: 6/2/2014		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.854	0.050	0	0	0		0.924	7.87	50	

The following samples were analyzed in this batch:

14051482-03B

Client: HRL Compliance Solutions, Inc
 Work Order: 14051482
 Project: Caerus Parachute Creek 3 Backgrounds 5.22.14

QC BATCH REPORT

Batch ID: **R141687** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R141687				Units: % of sample			Analysis Date: 5/29/2014 04:03 PM		
Client ID:	Run ID: MOIST_140529C			SeqNo: 2786848		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-R141687				Units: % of sample			Analysis Date: 5/29/2014 04:03 PM		
Client ID:	Run ID: MOIST_140529C			SeqNo: 2786847		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: 14051479-01B DUP				Units: % of sample			Analysis Date: 5/29/2014 04:03 PM		
Client ID:	Run ID: MOIST_140529C			SeqNo: 2786825		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 19.92 0.050 0 0 0 0-0 21.45 7.4 20

DUP	Sample ID: 14051482-01A DUP				Units: % of sample			Analysis Date: 5/29/2014 04:03 PM		
Client ID: BKGD 01	Run ID: MOIST_140529C			SeqNo: 2786836		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 6.43 0.050 0 0 0 0-0 6.76 5 20

The following samples were analyzed in this batch:

14051482-01A	14051482-02A	14051482-03A
--------------	--------------	--------------

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

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **29-May-14 10:30**

Work Order: **14051482**

Received by: **DS**

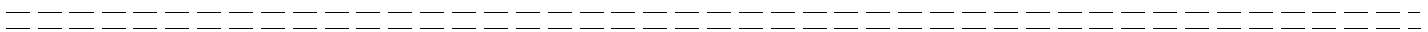
Checklist completed by *Diane Shaw* 29-May-14
eSignature Date

Reviewed by: *Ann Preston* 30-May-14
eSignature Date

Matrices: **Soil**
 Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="4.6 c"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="5/29/2014 1:27:27 PM"/>		
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:	<input type="text"/>		

Login Notes:



Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:

From: (616) 399-6070
Sample Receiving
ALS Laboratory Group
3352 128th Avenue
Holland, MI 49424

Origin ID: GRRR



J14101402070306

Ship Date: 27MAY14
Act Wgt: 67.0 LB
CAD: 22848408NET3400

Dim: 24 X 15 X 15 IN

Delivery Address Bar Code



Ref # 052714-1
Invoice #
PO # Parachute
Dept #

BHP TO: (616) 399-6070
sample receiving
ALS Laboratory Group
3352 128TH AVE

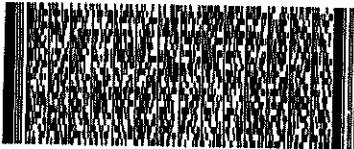
BILL GENDER

HOLLAND, MI 49424

WED - 28 MAY 10:30A
PRIORITY OVERNIGHT

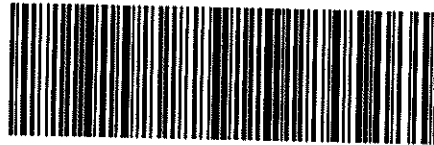
TRK# 7701 0783 4746

9281



68 GRRR

49424
MI-US
GRR



S22G140203AF220

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A 2
B. AML - Cole



02-Jun-2014

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

Re: **Caerus Parachute Creek 3 PBV Removal 5.28.14**

Work Order: **14051550**

Dear Mark,

ALS Environmental received 1 sample on 30-May-2014 09:30 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 9.

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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Environmental ALS Environmental logo icon consisting of a stylized flame and base.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: Caerus Parachute Creek 3 PBV Removal 5.28.14
Work Order: 14051550

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>
14051550-01	Footprint, 10'	Soil		5/28/2014 10:35	5/30/2014 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: Caerus Parachute Creek 3 PBV Removal 5.28.14
WorkOrder: 14051550

**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
LCS D	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: 02-Jun-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Parachute Creek 3 PBV Removal 5.28.14
Sample ID: Footprint, 10'
Collection Date: 5/28/2014 10:35 AM

Work Order: 14051550
Lab ID: 14051550-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 5/30/14	Analyst: BG
Benzene	ND		34	µg/Kg-dry	1	5/31/2014 01:53 AM
Surr: 1,2-Dichloroethane-d4	97.0		70-130	%REC	1	5/31/2014 01:53 AM
Surr: 4-Bromofluorobenzene	101		70-130	%REC	1	5/31/2014 01:53 AM
Surr: Dibromofluoromethane	94.6		70-130	%REC	1	5/31/2014 01:53 AM
Surr: Toluene-d8	96.6		70-130	%REC	1	5/31/2014 01:53 AM
MOISTURE			A2540 G			Analyst: AT
Moisture	12		0.050	% of sample	1	5/30/2014 09:02 AM

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

Client: HRL Compliance Solutions, Inc

QC BATCH REPORT

Work Order: 14051550

Project: Caerus Parachute Creek 3 PBV Removal 5.28.14

Batch ID: **59185**

Instrument ID **VMS5**

Method: **SW8260B**

MBLK		Sample ID: MBLK-59185-59185				Units: µg/Kg		Analysis Date: 5/30/2014 02:51 PM		
Client ID:		Run ID: VMS5_140530A			SeqNo: 2788056		Prep Date: 5/30/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
<i>Surr: 1,2-Dichloroethane-d4</i>	1030	0	1000	0	103	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	997	0	1000	0	99.7	70-130	0			
<i>Surr: Dibromofluoromethane</i>	995	0	1000	0	99.5	70-130	0			
<i>Surr: Toluene-d8</i>	994	0	1000	0	99.4	70-130	0			

LCS		Sample ID: LCS-59185-59185				Units: µg/Kg		Analysis Date: 5/30/2014 01:34 PM		
Client ID:		Run ID: VMS5_140530A			SeqNo: 2788055		Prep Date: 5/30/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1060	30	1000	0	106	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	1002	0	1000	0	100	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1010	0	1000	0	101	70-130	0			
<i>Surr: Dibromofluoromethane</i>	1004	0	1000	0	100	70-130	0			
<i>Surr: Toluene-d8</i>	999	0	1000	0	99.9	70-130	0			

The following samples were analyzed in this batch:

14051550-01A

Client: HRL Compliance Solutions, Inc
 Work Order: 14051550
 Project: Caerus Parachute Creek 3 PBV Removal 5.28.14

QC BATCH REPORT

Batch ID: **R141805** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R141805				Units: % of sample			Analysis Date: 5/30/2014 09:02 AM		
Client ID:	Run ID: MOIST_140530A			SeqNo: 2788613		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-R141805				Units: % of sample			Analysis Date: 5/30/2014 09:02 AM		
Client ID:	Run ID: MOIST_140530A			SeqNo: 2788612		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: 14051499-01B DUP				Units: % of sample			Analysis Date: 5/30/2014 09:02 AM		
Client ID:	Run ID: MOIST_140530A			SeqNo: 2788586		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 12.37 0.050 0 0 0 0-0 12.55 1.44 20

DUP	Sample ID: 14051557-03A DUP				Units: % of sample			Analysis Date: 5/30/2014 09:02 AM		
Client ID:	Run ID: MOIST_140530A			SeqNo: 2788602		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 2.22 0.050 0 0 0 0-0 2.24 0.897 20

The following samples were analyzed in this batch:

14051550-01A

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **30-May-14 09:30**

Work Order: **14051550**

Received by: **DS**

Checklist completed by Diane Shaw 30-May-14
eSignature Date

Reviewed by: Ann Preston 31-May-14
eSignature Date

Matrices: **Soil**
Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="3.6 c"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="5/30/2014 11:05:12 AM"/>		
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:	<input type="text"/>		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

From: (816) 399-8970
Sample Receiving
ALS Laboratory Group
3352 128th Avenue
Holland, MI 49424

Origin ID: GRRR



Ship Date: 29MAY14
AcctWgt: 50.0 LB
CAD: 22648469NET3480
Dim: 24 X 15 X 15 IN

Delivery Address Bar Code



SHIP TO: (816) 399-8970
sample receiving
ALS Laboratory Group
3352 128TH AVE

BILL BENDER

Ref # 052014-1
Invoice #
PO # Parachute
Dept #

HOLLAND, MI 49424

FRI - 30 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 7701 3873 0888
EZ61

49424
MI-49
GRR

68 GRRR



020140201P720

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hOS

ALS Parachute Custody Seal

DATE 5-29 Time 1:00

Name: WJM



18-Aug-2014

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

Re: **Caerus Parachute Creek 3 PBV Removal 8.6.14**

Work Order: **1408452**

Dear Mark,

ALS Environmental received 1 sample on 09-Aug-2014 10:00 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 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: Chad Whelton

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 ALS Environmental logo icon consisting of a stylized blue triangle with a yellow flame.

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RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: Caerus Parachute Creek 3 PBV Removal 8.6.14
Work Order: 1408452

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>
1408452-01	Containment Cell	Soil		8/6/2014 12:05	8/9/2014 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: Caerus Parachute Creek 3 PBV Removal 8.6.14
Work Order: 1408452

Case Narrative

Batch 61581 MS/MSD data for 1408480-04 is not related to this project's samples. No data requires qualification.

Client: HRL Compliance Solutions, Inc
Project: Caerus Parachute Creek 3 PBV Removal 8.6.14
WorkOrder: 1408452

**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
LCS D	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: 18-Aug-14

Client: HRL Compliance Solutions, Inc

Project: Caerus Parachute Creek 3 PBV Removal 8.6.14

Work Order: 1408452

Sample ID: Containment Cell

Lab ID: 1408452-01

Collection Date: 8/6/2014 12:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 8/12/14	Analyst: IT
DRO (C10-C28)	100		4.7	mg/Kg-dry	1	8/12/2014 10:04 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>54.7</i>		<i>39-133</i>	<i>%REC</i>	1	8/12/2014 10:04 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 8/11/14	Analyst: IT
GRO (C6-C10)	38		2.9	mg/Kg-dry	1	8/12/2014 04:23 AM
<i>Surr: Toluene-d8</i>	<i>113</i>		<i>50-150</i>	<i>%REC</i>	1	8/12/2014 04:23 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/11/14	Analyst: AK
Benzene	ND		35	µg/Kg-dry	1	8/15/2014 06:00 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	8/15/2014 06:00 PM
m,p-Xylene	250		69	µg/Kg-dry	1	8/15/2014 06:00 PM
o-Xylene	83		35	µg/Kg-dry	1	8/15/2014 06:00 PM
Toluene	ND		35	µg/Kg-dry	1	8/15/2014 06:00 PM
Xylenes, Total	340		100	µg/Kg-dry	1	8/15/2014 06:00 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>94.8</i>		<i>70-130</i>	<i>%REC</i>	1	8/15/2014 06:00 PM
<i>Surr: 4-Bromofluorobenzene</i>	<i>92.0</i>		<i>70-130</i>	<i>%REC</i>	1	8/15/2014 06:00 PM
<i>Surr: Dibromofluoromethane</i>	<i>97.2</i>		<i>70-130</i>	<i>%REC</i>	1	8/15/2014 06:00 PM
<i>Surr: Toluene-d8</i>	<i>98.7</i>		<i>70-130</i>	<i>%REC</i>	1	8/15/2014 06:00 PM
MOISTURE			A2540 G			Analyst: TM
Moisture	13		0.050	% of sample	1	8/12/2014 05:20 PM

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

Client: HRL Compliance Solutions, Inc

QC BATCH REPORT

Work Order: 1408452

Project: Caerus Parachute Creek 3 PBV Removal 8.6.14

Batch ID: **61581** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-61581-61581				Units: mg/Kg		Analysis Date: 8/12/2014 05:33 PM		
Client ID:		Run ID: GC8_140812A		SeqNo: 2887622		Prep Date: 8/12/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
<i>Surr: 4-Terphenyl-d14</i>	1.339	0	1.667	0	80.3	39-133	0			

MBLK		Sample ID: DBLKS1-61581-61581				Units: mg/Kg		Analysis Date: 8/12/2014 05:33 PM		
Client ID:		Run ID: GC8_140812A		SeqNo: 2887643		Prep Date: 8/12/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
<i>Surr: 4-Terphenyl-d14</i>	1.339	0	1.667	0	80.3	39-133	0			

LCS		Sample ID: DLCSS1-61581-61581				Units: mg/Kg		Analysis Date: 8/12/2014 06:03 PM		
Client ID:		Run ID: GC8_140812A		SeqNo: 2887623		Prep Date: 8/12/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	122.1	4.2	166.7	0	73.3	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.109	0	1.667	0	66.5	39-133	0			

LCS		Sample ID: DLCSS1-61581-61581				Units: mg/Kg		Analysis Date: 8/12/2014 06:03 PM		
Client ID:		Run ID: GC8_140812A		SeqNo: 2887644		Prep Date: 8/12/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	122.1	4.2	166.7	0	73.3	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.109	0	1.667	0	66.5	39-133	0			

MS		Sample ID: 1408480-04B MS				Units: mg/Kg		Analysis Date: 8/12/2014 06:33 PM		
Client ID:		Run ID: GC8_140812A		SeqNo: 2887624		Prep Date: 8/12/2014		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	965.1	16	327.9	964.4	0.196	48-110	0			S
<i>Surr: 4-Terphenyl-d14</i>	2.483	0	3.279	0	75.7	39-133	0			

MS		Sample ID: 1408480-04B MS				Units: mg/Kg		Analysis Date: 8/12/2014 06:33 PM		
Client ID:		Run ID: GC8_140812A		SeqNo: 2887645		Prep Date: 8/12/2014		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	965.1	16	327.9	964.4	0.196	48-110	0			S
<i>Surr: 4-Terphenyl-d14</i>	2.483	0	3.279	0	75.7	39-133	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1408452
Project: Caerus Parachute Creek 3 PBV Removal 8.6.14

QC BATCH REPORT

Batch ID: **61581** Instrument ID **GC8** Method: **SW8015M**

MSD		Sample ID: 1408480-04B MSD				Units: mg/Kg		Analysis Date: 8/12/2014 07:03 PM			
Client ID:		Run ID: GC8_140812A				SeqNo: 2887625		Prep Date: 8/12/2014		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	1505	17	660.1	964.4	81.9	48-110	965.1	43.7	30	R	
<i>Surr: 4-Terphenyl-d14</i>	2.692	0	3.301	0	81.6	39-133	2.483	8.08	30		

MSD		Sample ID: 1408480-04B MSD				Units: mg/Kg		Analysis Date: 8/12/2014 07:03 PM			
Client ID:		Run ID: GC8_140812A				SeqNo: 2887646		Prep Date: 8/12/2014		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	1505	17	660.1	964.4	81.9	48-110	965.1	43.7	30	R	
<i>Surr: 4-Terphenyl-d14</i>	2.692	0	3.301	0	81.6	39-133	2.483	8.08	30		

The following samples were analyzed in this batch: | 1408452-01A |

Client: HRL Compliance Solutions, Inc
Work Order: 1408452
Project: Caerus Parachute Creek 3 PBV Removal 8.6.14

QC BATCH REPORT

Batch ID: **61546** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-61546-61546				Units: µg/Kg		Analysis Date: 8/11/2014 07:28 PM		
Client ID:		Run ID: GC9_140811A		SeqNo: 2885667		Prep Date: 8/11/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
<i>Surr: Toluene-d8</i>	5066	0	5000	0	101	50-150	0			

LCS		Sample ID: LCS-61546-61546				Units: µg/Kg		Analysis Date: 8/11/2014 07:03 PM		
Client ID:		Run ID: GC9_140811A		SeqNo: 2885666		Prep Date: 8/11/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	498700	2,500	500000	0	99.7	70-130	0			
<i>Surr: Toluene-d8</i>	4564	0	5000	0	91.3	50-150	0			

MS		Sample ID: 1408465-01A MS				Units: µg/Kg		Analysis Date: 8/11/2014 08:45 PM		
Client ID:		Run ID: GC9_140811A		SeqNo: 2885669		Prep Date: 8/11/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	587400	2,500	500000	0	117	70-130	0			
<i>Surr: Toluene-d8</i>	4956	0	5000	0	99.1	50-150	0			

MSD		Sample ID: 1408465-01A MSD				Units: µg/Kg		Analysis Date: 8/11/2014 09:11 PM		
Client ID:		Run ID: GC9_140811A		SeqNo: 2885670		Prep Date: 8/11/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	568400	2,500	500000	0	114	70-130	587400	3.29	30	
<i>Surr: Toluene-d8</i>	5316	0	5000	0	106	50-150	4956	7.02	30	

The following samples were analyzed in this batch: 1408452-01A

Client: HRL Compliance Solutions, Inc
 Work Order: 1408452
 Project: Caerus Parachute Creek 3 PBV Removal 8.6.14

QC BATCH REPORT

Batch ID: **61563** Instrument ID **VMS7** Method: **SW8260B**

MBLK		Sample ID: MBLK-61563-61563				Units: µg/Kg		Analysis Date: 8/12/2014 11:42 AM		
Client ID:		Run ID: VMS7_140812A			SeqNo: 2886849		Prep Date: 8/11/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
<i>Surr: 1,2-Dichloroethane-d4</i>	981.5	0	1000	0	98.2	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	997	0	1000	0	99.7	70-130	0			
<i>Surr: Dibromofluoromethane</i>	972	0	1000	0	97.2	70-130	0			
<i>Surr: Toluene-d8</i>	973	0	1000	0	97.3	70-130	0			

LCS		Sample ID: LCS-61563-61563				Units: µg/Kg		Analysis Date: 8/12/2014 09:10 AM		
Client ID:		Run ID: VMS7_140812A			SeqNo: 2886848		Prep Date: 8/11/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1014	30	1000	0	101	75-125	0			
Ethylbenzene	1012	30	1000	0	101	75-125	0			
m,p-Xylene	2006	60	2000	0	100	80-125	0			
o-Xylene	996	30	1000	0	99.6	75-125	0			
Toluene	996.5	30	1000	0	99.6	70-125	0			
Xylenes, Total	3002	90	3000	0	100	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	982	0	1000	0	98.2	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1012	0	1000	0	101	70-130	0			
<i>Surr: Dibromofluoromethane</i>	1018	0	1000	0	102	70-130	0			
<i>Surr: Toluene-d8</i>	1006	0	1000	0	101	70-130	0			

MS		Sample ID: 1408445-01B MS				Units: µg/Kg		Analysis Date: 8/14/2014 08:24 AM		
Client ID:		Run ID: VMS8_140813A			SeqNo: 2889204		Prep Date: 8/11/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1453	46	1532	0	94.8	75-125	0			
Ethylbenzene	1455	46	1532	0	95	75-125	0			
m,p-Xylene	2932	92	3063	0	95.7	80-125	0			
o-Xylene	1533	46	1532	76.58	95.1	75-125	0			
Toluene	1427	46	1532	0	93.2	70-125	0			
Xylenes, Total	4466	140	4595	77	95.5	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	1485	0	1532	0	97	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1548	0	1532	0	101	70-130	0			
<i>Surr: Dibromofluoromethane</i>	1471	0	1532	0	96	70-130	0			
<i>Surr: Toluene-d8</i>	1453	0	1532	0	94.8	70-130	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1408452
Project: Caerus Parachute Creek 3 PBV Removal 8.6.14

QC BATCH REPORT

Batch ID: **61563** Instrument ID **VMS7** Method: **SW8260B**

MSD		Sample ID: 1408445-01B MSD				Units: µg/Kg		Analysis Date: 8/14/2014 08:48 AM		
Client ID:		Run ID: VMS8_140813A			SeqNo: 2889205		Prep Date: 8/11/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1422	46	1532	0	92.8	75-125	1453	2.13	30	
Ethylbenzene	1466	46	1532	0	95.7	75-125	1455	0.734	30	
m,p-Xylene	2919	92	3063	0	95.3	80-125	2932	0.471	30	
o-Xylene	1528	46	1532	76.58	94.8	75-125	1533	0.35	30	
Toluene	1408	46	1532	0	92	70-125	1427	1.35	30	
Xylenes, Total	4446	140	4595	77	95.1	75-125	4466	0.43	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	1419	0	1532	0	92.6	70-130	1485	4.54	30	
<i>Surr: 4-Bromofluorobenzene</i>	1572	0	1532	0	103	70-130	1548	1.57	30	
<i>Surr: Dibromofluoromethane</i>	1487	0	1532	0	97.1	70-130	1471	1.09	30	
<i>Surr: Toluene-d8</i>	1450	0	1532	0	94.7	70-130	1453	0.158	30	

The following samples were analyzed in this batch: 1408452-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1408452
Project: Caerus Parachute Creek 3 PBV Removal 8.6.14

QC BATCH REPORT

Batch ID: **R146184** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R146184				Units: % of sample			Analysis Date: 8/12/2014 05:20 PM		
Client ID:	Run ID: MOIST_140812A			SeqNo: 2887492		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-R146184				Units: % of sample			Analysis Date: 8/12/2014 05:20 PM		
Client ID:	Run ID: MOIST_140812A			SeqNo: 2887490		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: 1408462-04B DUP				Units: % of sample			Analysis Date: 8/12/2014 05:20 PM		
Client ID:	Run ID: MOIST_140812A			SeqNo: 2887463		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 4.41 0.050 0 0 0 0-0 4.56 3.34 20

DUP	Sample ID: 1408511-05B DUP				Units: % of sample			Analysis Date: 8/12/2014 05:20 PM		
Client ID:	Run ID: MOIST_140812A			SeqNo: 2887485		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 3.94 0.050 0 0 0 0-0 3.91 0.764 20

The following samples were analyzed in this batch: 1408452-01A

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

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **09-Aug-14 10:00**

Work Order: **1408452**

Received by: **KRW**

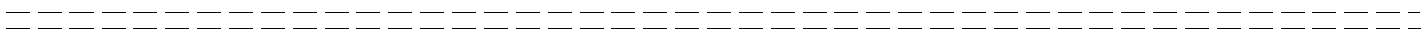
Checklist completed by Keith Wierenga 09-Aug-14
eSignature Date

Reviewed by: Ann Preston 11-Aug-14
eSignature Date

Matrices: Soil
 Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="3.8 C"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="8/9/2014 11:09:46 AM"/>		
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:	<input type="text"/>		

Login Notes:

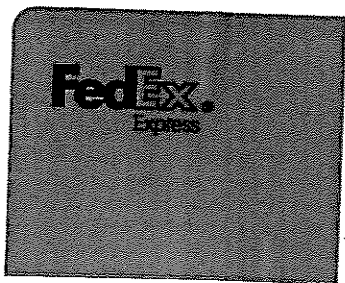


Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:



SD

FedEx Saturday Delivery

FedEx NEW Package
Express US Airbill

Tracking # 8022 273 1994

1 From
Date 2-9-14
Sender's Name CASEY RICHARDSON
Company UCSI
Address 385 EYE RD
City GRAND JCT
State MI ZIP 49424

2 Your Internal Billing Reference

3 To
Recipient's Name SAMPLE RECEIVING
Company ALC ENVIRONMENTAL
Address 3352 128TH AVE
City HOLLAND State MI ZIP 49424

HOLD Weekday
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.

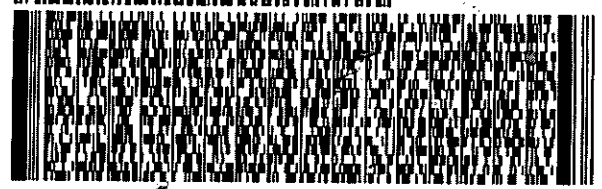
HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.

6080
1086
DATE: 2-8-14
NAME: CASEY RICHARDSON
COMPANY: UCSI
TIME: 1700
CUSTODY SEAL
DATE: 2-9-14
TIME: 1505
SHIP BROKER BY:

ORIGIN ID: 6JTA (618) 389-6070
ALC ENVIRONMENTAL HOLLAND LAB
3352 128TH AVE
HOLLAND, MI 494248263
UNITED STATES US

SHIP DATE: 08AUG14
ACTWT: 17.0 LB MAN
CAD: POS1501
DIMS: 17x12x16 IN
BILL SENDER: SA

TO
ALS LABORATORY
3352 128TH AVE
HOLLAND MI 49424
(618) 389-6070



FedEx
Express
E

TRK# 8022 0273 1994

XO HLMA

49424 GRR
MI-US

**SATURDAY 12:00P
PRIORITY OVERNIGHT**



- 4 Express Pay
NOTE: Service not available for this service.
- Next Business Day
- FedEx First Ov
Earliest next business
location. Friday only.
Monday unless SAT
- FedEx Priority
Next business day
delivered on Monday
if selected.
- FedEx Standard
Next business day
Monday through Fri
- 5 Packaging
 FedEx Envelope
- 6 Special Hs
 SATURDAY D
NOT available for 1
- No Signature
Package may be in
delivered a signature

Does this shipment contain dangerous goods?
One box must be checked.

No Yes
As per attached
Shipper's Declaration

Shipper's Declaration
not required.

Dry Ice
Dry ice, I, UN 1845

Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging
or placed in a FedEx Express Drop Box.

7 Payment Bill to:

Sender Acct No in Section 7 will be billed

Recipient Third Party Credit Card Cash/Check

Total Packages 1 Total Weight 17 lb



8022 0273 1994

644

Align Open End of FedEx Pouch Here



30-Aug-2014

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

Re: **Caerus Parachute Creek 3 PBV Removal 8.22.14**

Work Order: **14081234**

Dear Mark,

ALS Environmental received 1 sample on 23-Aug-2014 10:00 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 19.

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 ALS

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RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: Caerus Parachute Creek 3 PBV Removal 8.22.14
Work Order: 14081234

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>
14081234-01	Containment Cell 082214	Soil		8/22/2014 11:00	8/23/2014 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: Caerus Parachute Creek 3 PBV Removal 8.22.14
Work Order: 14081234

Case Narrative

Batch 62022 sample Containment Cell 082214 MS/MSD recoveries for Barium and Zinc were outside control limits, however, the results in the parent sample were greater than 4x the spiked amount. No qualification is required for Barium and Zinc. The MS recovery for Chromium and MSD recovery for Arsenic were above control limits. The MSD recovery for Chromium and RPD, and the MS recovery for Arsenic and the RPD met quality control criteria. No data requires qualification for Arsenic and Chromium.

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: 30-Aug-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Parachute Creek 3 PBV Removal 8.22.14
Sample ID: Containment Cell 082214
Collection Date: 8/22/2014 11:00 AM

Work Order: 14081234
Lab ID: 14081234-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA						
Mercury	0.075		SW7471 0.014	mg/Kg-dry	Prep: SW7471 / 8/25/14 1	Analyst: LR 8/25/2014 04:11 PM
SOLUBLE CATIONS FOR SAR						
Calcium	390		SW846 6010C 5.0	mg/L	Prep: USDA Method 20B / 8/27/14 10	Analyst: JEJ 8/27/2014 03:29 PM
Magnesium	250		2.0	mg/L	10	8/27/2014 03:29 PM
Sodium	2,800		4.0	mg/L	20	8/28/2014 11:34 AM
METALS BY ICP-MS						
Arsenic	12		SW6020A 2.0	mg/Kg-dry	Prep: SW3050B / 8/25/14 5	Analyst: ML 8/26/2014 02:38 AM
Barium	240		2.0	mg/Kg-dry	5	8/26/2014 02:38 AM
Cadmium	ND		0.81	mg/Kg-dry	5	8/26/2014 02:38 AM
Chromium	8.8		2.0	mg/Kg-dry	5	8/26/2014 02:38 AM
Copper	16		2.0	mg/Kg-dry	5	8/26/2014 02:38 AM
Lead	14		2.0	mg/Kg-dry	5	8/26/2014 02:38 AM
Nickel	16		2.0	mg/Kg-dry	5	8/26/2014 02:38 AM
Selenium	2.4		2.0	mg/Kg-dry	5	8/26/2014 02:38 AM
Silver	ND		2.0	mg/Kg-dry	5	8/26/2014 02:38 AM
Zinc	59		4.0	mg/Kg-dry	5	8/26/2014 02:38 AM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	27		USDA H60 METHOD 0.010	none	Prep: USDA Method 20B / 8/27/14 1	Analyst: JEJ 8/27/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW846 8270D 7.2	µg/Kg-dry	Prep: SW3541 / 8/27/14 1	Analyst: MK 8/28/2014 03:38 PM
Acenaphthylene	ND		7.2	µg/Kg-dry	1	8/28/2014 03:38 PM
Anthracene	ND		7.2	µg/Kg-dry	1	8/28/2014 03:38 PM
Benzo(a)anthracene	ND		7.2	µg/Kg-dry	1	8/28/2014 03:38 PM
Benzo(a)pyrene	ND		7.2	µg/Kg-dry	1	8/28/2014 03:38 PM
Benzo(b)fluoranthene	ND		7.2	µg/Kg-dry	1	8/28/2014 03:38 PM
Benzo(g,h,i)perylene	ND		7.2	µg/Kg-dry	1	8/28/2014 03:38 PM
Benzo(k)fluoranthene	ND		7.2	µg/Kg-dry	1	8/28/2014 03:38 PM
Chrysene	ND		7.2	µg/Kg-dry	1	8/28/2014 03:38 PM
Dibenzo(a,h)anthracene	ND		7.2	µg/Kg-dry	1	8/28/2014 03:38 PM
Fluoranthene	ND		7.2	µg/Kg-dry	1	8/28/2014 03:38 PM
Fluorene	ND		7.2	µg/Kg-dry	1	8/28/2014 03:38 PM
Indeno(1,2,3-cd)pyrene	ND		7.2	µg/Kg-dry	1	8/28/2014 03:38 PM
Naphthalene	ND		7.2	µg/Kg-dry	1	8/28/2014 03:38 PM
Pyrene	ND		7.2	µg/Kg-dry	1	8/28/2014 03:38 PM
Surr: 2-Fluorobiphenyl	68.2		12-100	%REC	1	8/28/2014 03:38 PM

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

ALS Group USA, Corp

Date: 30-Aug-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Parachute Creek 3 PBV Removal 8.22.14
Sample ID: Containment Cell 082214
Collection Date: 8/22/2014 11:00 AM

Work Order: 14081234
Lab ID: 14081234-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Terphenyl-d14	115		25-137	%REC	1	8/28/2014 03:38 PM
Surr: Nitrobenzene-d5	42.6		37-107	%REC	1	8/28/2014 03:38 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD	Prep: USDA Method 20B / 8/27/14		Analyst: MELB
Electrical Conductivity @ Saturation	18		0.050	mmhos/cm @25	10	8/27/2014 12:30 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	8.4		0.55	mg/Kg-dry	1	8/27/2014 08:06 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 8/24/14		Analyst: JI
Chromium, Hexavalent	ND		0.55	mg/Kg-dry	1	8/24/2014 10:00 PM
MOISTURE			A2540 G			Analyst: RDM
Moisture	8.8		0.050	% of sample	1	8/27/2014 12:30 PM
PH			SW9045D	Prep: EXTRACT / 8/25/14		Analyst: JB
pH	8.2			s.u.	1	8/25/2014 05:00 PM

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

Client: HRL Compliance Solutions, Inc

QC BATCH REPORT

Work Order: 14081234

Project: Caerus Parachute Creek 3 PBV Removal 8.22.14

Batch ID: **61979**

Instrument ID **HG1**

Method: **SW7471**

MBLK		Sample ID: MBLK-61979-61979				Units: mg/Kg		Analysis Date: 8/25/2014 03:10 PM		
Client ID:		Run ID: HG1_140825A		SeqNo: 2902477		Prep Date: 8/25/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.020								

LCS		Sample ID: LCS-61979-61979				Units: mg/Kg		Analysis Date: 8/25/2014 03:12 PM		
Client ID:		Run ID: HG1_140825A		SeqNo: 2902478		Prep Date: 8/25/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.19	0.020	0.1665	0	114	80-120	0			

MS		Sample ID: 14081065-04BMS				Units: mg/Kg		Analysis Date: 8/25/2014 03:37 PM		
Client ID:		Run ID: HG1_140825A		SeqNo: 2902511		Prep Date: 8/25/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1347	0.012	0.1028	0.0167	115	75-125	0			

MSD		Sample ID: 14081065-04BMSD				Units: mg/Kg		Analysis Date: 8/25/2014 03:39 PM		
Client ID:		Run ID: HG1_140825A		SeqNo: 2902512		Prep Date: 8/25/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1306	0.012	0.1034	0.0167	110	75-125	0.1347	3.11	35	

The following samples were analyzed in this batch:

14081234-01A

Client: HRL Compliance Solutions, Inc
 Work Order: 14081234
 Project: Caerus Parachute Creek 3 PBV Removal 8.22.14

QC BATCH REPORT

Batch ID: **62022** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-62022-62022				Units: mg/Kg		Analysis Date: 8/25/2014 11:58 PM		
Client ID:		Run ID: ICPMS1_140825A			SeqNo: 2903708		Prep Date: 8/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	0.001274	0.10								J
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	0.00304	0.25								J
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.09955	0.50								J

LCS		Sample ID: LCS-62022-62022				Units: mg/Kg		Analysis Date: 8/26/2014 12:04 AM		
Client ID:		Run ID: ICPMS1_140825A			SeqNo: 2903710		Prep Date: 8/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.462	0.25	5	0	89.2	80-120	0			
Barium	4.7	0.25	5	0	94	80-120	0			
Cadmium	4.64	0.10	5	0	92.8	80-120	0			
Chromium	4.607	0.25	5	0	92.1	80-120	0			
Copper	4.466	0.25	5	0	89.3	80-120	0			
Lead	4.642	0.25	5	0	92.8	80-120	0			
Nickel	4.541	0.25	5	0	90.8	80-120	0			
Selenium	4.45	0.25	5	0	89	80-120	0			
Silver	4.683	0.25	5	0	93.7	80-120	0			
Zinc	5.65	0.50	5	0	113	80-120	0			

MS		Sample ID: 14081234-01AMS				Units: mg/Kg		Analysis Date: 8/26/2014 02:44 AM		
Client ID: Containment Cell 082214		Run ID: ICPMS1_140825A			SeqNo: 2903752		Prep Date: 8/25/2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	18.3	1.8	7.342	10.62	105	75-125	0			
Barium	214.8	1.8	7.342	219.2	-59.5	75-125	0			SO
Cadmium	7.919	0.73	7.342	0.6688	98.7	75-125	0			
Chromium	18.01	1.8	7.342	7.995	136	75-125	0			S
Copper	21.11	1.8	7.342	14.15	94.9	75-125	0			
Lead	21	1.8	7.342	12.88	111	75-125	0			
Nickel	22.07	1.8	7.342	14.52	103	75-125	0			
Selenium	8.341	1.8	7.342	2.195	83.7	75-125	0			
Silver	6.832	1.8	7.342	0.08948	91.8	75-125	0			
Zinc	68.65	3.7	7.342	53.91	201	75-125	0			SO

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

Client: HRL Compliance Solutions, Inc
Work Order: 14081234
Project: Caerus Parachute Creek 3 PBV Removal 8.22.14

QC BATCH REPORT

Batch ID: **62022** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 14081234-01AMSD				Units: mg/Kg		Analysis Date: 8/26/2014 02:50 AM			
Client ID: Containment Cell 082214		Run ID: ICPMS1_140825A				SeqNo: 2903753		Prep Date: 8/25/2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	20.48	1.8	7.267	10.62	136	75-125	18.3	11.2	25	S	
Barium	170.2	1.8	7.267	219.2	-675	75-125	214.8	23.2	25	SO	
Cadmium	7.307	0.73	7.267	0.6688	91.3	75-125	7.919	8.03	25		
Chromium	16.69	1.8	7.267	7.995	120	75-125	18.01	7.63	25		
Copper	21.53	1.8	7.267	14.15	102	75-125	21.11	1.94	25		
Lead	20.61	1.8	7.267	12.88	106	75-125	21	1.87	25		
Nickel	20.55	1.8	7.267	14.52	82.9	75-125	22.07	7.12	25		
Selenium	8.114	1.8	7.267	2.195	81.5	75-125	8.341	2.75	25		
Silver	6.421	1.8	7.267	0.08948	87.1	75-125	6.832	6.2	25		
Zinc	63.59	3.6	7.267	53.91	133	75-125	68.65	7.65	25	SO	

The following samples were analyzed in this batch: | 14081234-01A |

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

Client: HRL Compliance Solutions, Inc
Work Order: 14081234
Project: Caerus Parachute Creek 3 PBV Removal 8.22.14

QC BATCH REPORT

Batch ID: **62046** Instrument ID **SAR** Method: **USDA H60 Method**

DUP	Sample ID: 14081254-01BDUP				Units: none		Analysis Date: 8/27/2014			
Client ID:	Run ID: SAR_140827A			SeqNo: 2908981		Prep Date: 8/27/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	9.259	0.010	0	0	0		8.569	7.74	50	

The following samples were analyzed in this batch:

Client: HRL Compliance Solutions, Inc
Work Order: 14081234
Project: Caerus Parachute Creek 3 PBV Removal 8.22.14

QC BATCH REPORT

Batch ID: **62099** Instrument ID **SVMS4** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-62099-62099				Units: µg/Kg		Analysis Date: 8/29/2014 04:02 AM		
Client ID:		Run ID: SVMS4_140828A				SeqNo: 2910193		Prep Date: 8/27/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
<i>Surr: 2-Fluorobiphenyl</i>	1436	0	1667	0	86.2	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1740	0	1667	0	104	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1163	0	1667	0	69.8	37-107	0			

LCS		Sample ID: SLCSS1-62099-62099				Units: µg/Kg		Analysis Date: 8/29/2014 04:26 AM		
Client ID:		Run ID: SVMS4_140828A				SeqNo: 2910194		Prep Date: 8/27/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	483.3	6.7	666.7	0	72.5	45-110	0			
Acenaphthylene	517.3	6.7	666.7	0	77.6	45-105	0			
Anthracene	612	6.7	666.7	0	91.8	55-105	0			
Benzo(a)anthracene	578	6.7	666.7	0	86.7	50-110	0			
Benzo(a)pyrene	599.3	6.7	666.7	0	89.9	50-110	0			
Benzo(b)fluoranthene	546.3	6.7	666.7	0	81.9	45-115	0			
Benzo(g,h,i)perylene	624.7	6.7	666.7	0	93.7	40-125	0			
Benzo(k)fluoranthene	622.3	6.7	666.7	0	93.3	45-115	0			
Chrysene	607.3	6.7	666.7	0	91.1	55-110	0			
Dibenzo(a,h)anthracene	580.3	6.7	666.7	0	87	40-125	0			
Fluoranthene	563.7	6.7	666.7	0	84.5	55-115	0			
Fluorene	569.7	6.7	666.7	0	85.4	50-110	0			
Indeno(1,2,3-cd)pyrene	579	6.7	666.7	0	86.8	40-120	0			
Naphthalene	496	6.7	666.7	0	74.4	40-105	0			
Pyrene	652	6.7	666.7	0	97.8	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1253	0	1667	0	75.2	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1571	0	1667	0	94.3	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1076	0	1667	0	64.6	37-107	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14081234
 Project: Caerus Parachute Creek 3 PBV Removal 8.22.14

QC BATCH REPORT

Batch ID: **62099** Instrument ID **SVMS4** Method: **SW846 8270D**

MS				Sample ID: 14081279-03C MS			Units: µg/Kg		Analysis Date: 8/29/2014 04:49 AM		
Client ID:		Run ID: SVMS4_140828A			SeqNo: 2910195		Prep Date: 8/27/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1002	13	1287	0	77.9	45-110	0				
Acenaphthylene	1024	13	1287	0	79.6	45-105	0				
Anthracene	1213	13	1287	0	94.3	55-105	0				
Benzo(a)anthracene	1161	13	1287	0	90.2	50-110	0				
Benzo(a)pyrene	1200	13	1287	0	93.3	50-110	0				
Benzo(b)fluoranthene	1134	13	1287	0	88.1	45-115	0				
Benzo(g,h,i)perylene	1189	13	1287	0	92.4	40-125	0				
Benzo(k)fluoranthene	1215	13	1287	0	94.4	45-115	0				
Chrysene	1174	13	1287	0	91.2	55-110	0				
Dibenzo(a,h)anthracene	1159	13	1287	0	90	40-125	0				
Fluoranthene	1143	13	1287	0	88.8	55-115	0				
Fluorene	1173	13	1287	0	91.2	50-110	0				
Indeno(1,2,3-cd)pyrene	1220	13	1287	0	94.8	40-120	0				
Naphthalene	1020	13	1287	0	79.3	40-105	0				
Pyrene	1207	13	1287	0	93.8	45-125	0				
<i>Surr: 2-Fluorobiphenyl</i>	2462	0	3217	0	76.5	12-100	0				
<i>Surr: 4-Terphenyl-d14</i>	2900	0	3217	0	90.1	25-137	0				
<i>Surr: Nitrobenzene-d5</i>	2036	0	3217	0	63.3	37-107	0				

MSD				Sample ID: 14081279-03C MSD			Units: µg/Kg		Analysis Date: 8/29/2014 05:13 AM		
Client ID:		Run ID: SVMS4_140828A			SeqNo: 2910196		Prep Date: 8/27/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1046	13	1324	0	79	45-110	1002	4.23	30		
Acenaphthylene	1078	13	1324	0	81.4	45-105	1024	5.13	30		
Anthracene	1178	13	1324	0	89	55-105	1213	2.95	30		
Benzo(a)anthracene	1076	13	1324	0	81.3	50-110	1161	7.55	30		
Benzo(a)pyrene	1060	13	1324	0	80	50-110	1200	12.5	30		
Benzo(b)fluoranthene	1085	13	1324	0	81.9	45-115	1134	4.46	30		
Benzo(g,h,i)perylene	1069	13	1324	0	80.7	40-125	1189	10.6	30		
Benzo(k)fluoranthene	1058	13	1324	0	79.9	45-115	1215	13.9	30		
Chrysene	1065	13	1324	0	80.4	55-110	1174	9.76	30		
Dibenzo(a,h)anthracene	1063	13	1324	0	80.3	40-125	1159	8.62	30		
Fluoranthene	1053	13	1324	0	79.5	55-115	1143	8.16	30		
Fluorene	1206	13	1324	0	91.1	50-110	1173	2.78	30		
Indeno(1,2,3-cd)pyrene	1160	13	1324	0	87.6	40-120	1220	5.01	30		
Naphthalene	1074	13	1324	0	81.1	40-105	1020	5.14	30		
Pyrene	1111	13	1324	0	83.9	45-125	1207	8.26	30		
<i>Surr: 2-Fluorobiphenyl</i>	2621	0	3309	0	79.2	12-100	2462	6.25	40		
<i>Surr: 4-Terphenyl-d14</i>	2799	0	3309	0	84.6	25-137	2900	3.53	40		
<i>Surr: Nitrobenzene-d5</i>	2196	0	3309	0	66.4	37-107	2036	7.55	40		

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

Client: HRL Compliance Solutions, Inc
Work Order: 14081234
Project: Caerus Parachute Creek 3 PBV Removal 8.22.14

QC BATCH REPORT

Batch ID: **62099** Instrument ID **SVMS4** Method: **SW846 8270D**

The following samples were analyzed in this batch:

14081234-01A

Client: HRL Compliance Solutions, Inc
 Work Order: 14081234
 Project: Caerus Parachute Creek 3 PBV Removal 8.22.14

QC BATCH REPORT

Batch ID: **61986** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-61986-61986		Units: mg/Kg		Analysis Date: 8/24/2014 10:00 PM					
Client ID:	Run ID: WETCHEM_140824K		SeqNo: 2901170		Prep Date: 8/24/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.50

LCS	Sample ID: LCS-61986-61986		Units: mg/Kg		Analysis Date: 8/24/2014 10:00 PM					
Client ID:	Run ID: WETCHEM_140824K		SeqNo: 2901171		Prep Date: 8/24/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2.012 0.50 1.992 0 101 80-120 0

MS	Sample ID: 14081047-03AMS		Units: mg/Kg		Analysis Date: 8/24/2014 10:00 PM					
Client ID:	Run ID: WETCHEM_140824K		SeqNo: 2901173		Prep Date: 8/24/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2.072 0.50 2 0.349 86.1 75-125 0

MS	Sample ID: 14081047-03AMSI		Units: mg/Kg		Analysis Date: 8/24/2014 10:00 PM					
Client ID:	Run ID: WETCHEM_140824K		SeqNo: 2901175		Prep Date: 8/24/2014 DF: 100					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 984 50 1139 0.349 86.3 75-125 0

MSD	Sample ID: 14081047-03AMSD		Units: mg/Kg		Analysis Date: 8/24/2014 10:00 PM					
Client ID:	Run ID: WETCHEM_140824K		SeqNo: 2901174		Prep Date: 8/24/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2.012 0.50 1.992 0.349 83.5 75-125 2.072 2.94 20

The following samples were analyzed in this batch:

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

Client: HRL Compliance Solutions, Inc
Work Order: 14081234
Project: Caerus Parachute Creek 3 PBV Removal 8.22.14

QC BATCH REPORT

Batch ID: **62043** Instrument ID **WETCHEM** Method: **SW9045D**

LCS	Sample ID: LCS-62043-62043		Units: s.u.		Analysis Date: 8/25/2014 05:00 PM					
Client ID:	Run ID: WETCHEM_140825L		SeqNo: 2902780		Prep Date: 8/25/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.02 0 4 0 100 90-110 0

DUP	Sample ID: 14081248-01A DUP		Units: s.u.		Analysis Date: 8/25/2014 05:00 PM					
Client ID:	Run ID: WETCHEM_140825L		SeqNo: 2902790		Prep Date: 8/25/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 7.05 0 0 0 0 0-0 7.08 0.425 20

The following samples were analyzed in this batch:

Client: HRL Compliance Solutions, Inc
Work Order: 14081234
Project: Caerus Parachute Creek 3 PBV Removal 8.22.14

QC BATCH REPORT

Batch ID: **62046** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP	Sample ID: 14081254-01BDUP		Units: mmhos/cm @25°C		Analysis Date: 8/27/2014 12:30 PM					
Client ID:	Run ID: WETCHEM_140827G		SeqNo: 2906463		Prep Date: 8/27/2014 DF: 10					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	12.84	0.050	0	0	0		12.73	0.86	50	

The following samples were analyzed in this batch:

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14081234
 Project: Caerus Parachute Creek 3 PBV Removal 8.22.14

QC BATCH REPORT

Batch ID: **R147139** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R147139				Units: % of sample			Analysis Date: 8/27/2014 12:30 PM		
Client ID:	Run ID: MOIST_140827A			SeqNo: 2907523		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-R147139				Units: % of sample			Analysis Date: 8/27/2014 12:30 PM		
Client ID:	Run ID: MOIST_140827A			SeqNo: 2907521		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 99.99 0.050 100 0 100 99.5-100.5 0

DUP	Sample ID: 14081269-02A DUP				Units: % of sample			Analysis Date: 8/27/2014 12:30 PM		
Client ID:	Run ID: MOIST_140827A			SeqNo: 2907492		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 62.59 0.050 0 0 0 0-0 59.52 5.03 20

DUP	Sample ID: 14081386-01A DUP				Units: % of sample			Analysis Date: 8/27/2014 12:30 PM		
Client ID:	Run ID: MOIST_140827A			SeqNo: 2907512		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 20.11 0.050 0 0 0 0-0 20.27 0.792 20

The following samples were analyzed in this batch: 14081234-01A

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

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **23-Aug-14 10:00**

Work Order: **14081234**

Received by: **KRW**

Checklist completed by Keith Warenga 23-Aug-14
eSignature Date

Reviewed by: Ann Preston 25-Aug-14
eSignature Date

Matrices: **Soil**
Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="3.4 C"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="8/23/2014 11:51:57 AM"/>		
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:	<input type="text"/>		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: