

Garden Gulch 1 (Chevron 1B-8D) (Location ID 335582)
Partially Buried Vessel Removal (Non-Facility ID 435778)
Form 4 (Notice of Completion)
Narrative Attachment

This Form 4 (Notice of Completion) was prepared for the purpose of describing completed work associated with the assessment of soil during the removal of a partially buried vessel (PBV) (Non-Facility ID 435778) at the Garden Gulch 1 (Chevron 1B-8D) (Location ID 335582) in the Caerus Piceance, LLC (Caerus) area of operations. This assessment was conducted using procedures approved under Colorado Oil and Gas Conservation Commission (COGCC) Remediation #8164. A Form 19 was submitted to the COGCC, but at the time of reporting, a spill/release tracking number had not been assigned. However, based on analytical data, Carlos Lujan of the COGCC approved the closure of this project without this tracking number.

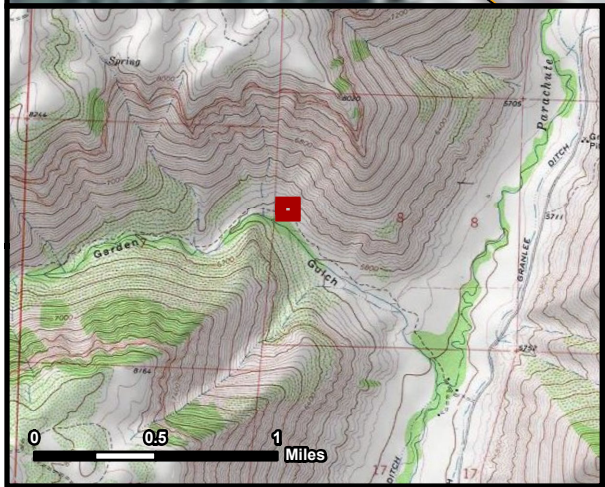
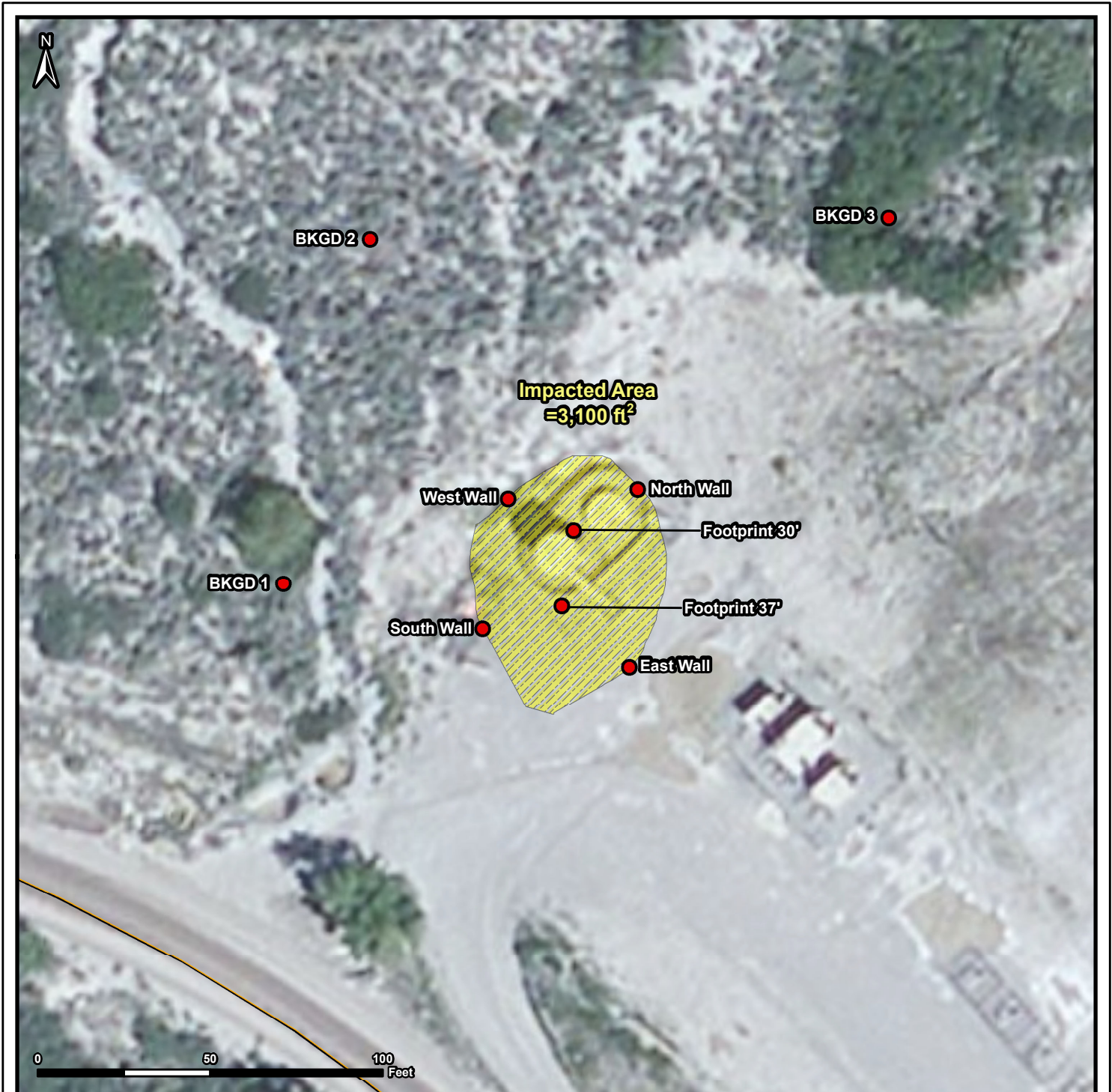
Upon removing the PBV from the ground, visual observations and field screening of soil around and below the tank indicated that impacted soil was present. Excavation of the impacted soil was conducted and field screen readings were utilized to determine the extent of the impacts.

From April 24, 2014 to May 7, 2014, confirmation soil samples were collected from the soil around and beneath the removed PBV (Footprint, 28', Footprint, 30', West Wall, 15', North Wall, 15', Footprint South, 37', South Wall, 18', East Wall, 18'). 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 electrical conductivity (EC) or sodium adsorption ration (SAR) for every sample. However, these samples were collected at a depth greater than three feet below the ground surface and the COGCC does not apply the Concentration Level for EC or SAR to soils deeper than three feet below the ground surface. Also, the benzo(A)pyrene (BaP) measurement for soil sample Footprint, 28' exceeded the COGCC Concentration Level. Additional soil was removed from the area represented by soil sample Footprint, 28' and an additional sample was collected, Footprint, 30'. This sample was submitted for BaP. Analytical results indicate that the soil sample was in compliance with the COGCC Table 910-1 Concentration Level for BaP. Background samples were collected from an undisturbed area near the Chevron 41-8D pad (COGCC Location ID 324196). 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.

All impacted soil removed during excavation activities was remediated onsite to below COGCC Table 910-1 Concentration Levels by utilizing ex-situ remediation technologies. On August 18, 2015, confirmation soil samples were collected from the removed soil (West End of stockpile, Middle of stockpile, and East End of stockpile). These 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 electrical conductivity measurements. However, pending COGCC approval, this soil will be used as beneficial reuse to improve stormwater drainage on North Parachute Creek Road and will not be re-vegetated for many years. Specifically, the remediated soil will be used to raise the elevation of the road surface

along areas of the road where stormwater runoff accumulates instead of draining. This will allow runoff to be conveyed to existing stormwater best management practices such as sediment traps and culverts. All remediated soil applied to the road surface will be covered with road base. Background samples were collected from an undisturbed area near the Chevron 41-8D pad (COGCC Location ID 324196).

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



NOTES / COMMENTS:

DISCLAIMER: This representation and the Geographic Information System (GIS) used to create it are designed as a source of reference and not intended to replace official records and/or legal surveys. HCSI assumes no responsibility for any risks, dangers, or liabilities that may result from its use and makes no guarantee as to the quality or accuracy of the underlying data.

Sample Location Map
Garden Gulch 1 PBV Removal
 39.539523 -108.139081
 Section 8, Township 6 South, Range 96 West

Sample Location	Transportation	Hydrography
Sample Location	CO Highways	Ditch
Impacted Area	County Roads	Intermittent Stream
PLSS	Local Streets	Perennial Stream
Township	Access Roads	Waterbody
Section		

HRL COMPLIANCE SOLUTIONS, INC.
 Environmental Consultants

Author: E. Fought
 Revision: 0
 Date: 11/4/2015

Caerus Piceance LLC
 Garden Gulch 1 Partially Buried Vault Removal
 Stockpile Soil Characterization and Background Analytical Results

			SAMPLES										
COGCC Table 910-1 Analytical Suite	Table 910-1 Standard	Units	Footprint, 28'	Footprint, 30'	West Wall, 15'	North Wall, 15'	Footprint South, 37'	South Wall, 18'	East Wall, 18'	West End of Stockpile	Middle of Stockpile	East End of Stockpile	BKGD 1*
Sample Date			4/24/2014	4/29/2014	4/24/2014	4/24/2014	5/6/2014	5/6/2014	5/7/2014	8/18/2015	8/18/2015	8/18/2015	7/22/2013
Organics													
TPH (DRO)	500	mg/kg	17	NS	18	11	8.2	9.3	ND	100	63	160	NA
TPH (GRO)	500	mg/kg	ND	NS	ND	ND	ND	ND	ND	220	110	48	NA
TPH	500	mg/kg	17	NS	18	11	8.2	9.3	ND	320	173	208	NA
BENZENE	0.17	mg/kg	ND	NS	ND	ND	0.051	ND	ND	ND	ND	ND	NA
TOLUENE	85	mg/kg	ND	NS	ND	ND	ND	ND	ND	NA	NA	NA	NA
ETHYLBENZENE	100	mg/kg	ND	NS	ND	ND	0.87	ND	ND	NA	NA	NA	NA
XYLENE TOTAL	175	mg/kg	ND	NS	ND	ND	ND	ND	ND	NA	NA	NA	NA
ACENAPHTHENE	1,000	mg/kg	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NA
ANTHRACENE	1,000	mg/kg	0.040	NS	ND	ND	ND	ND	ND	ND	ND	ND	NA
BENZO(A)ANTHRACENE	0.22	mg/kg	0.026	NS	ND	ND	ND	ND	ND	ND	ND	0.0081	NA
BENZO(A)PYRENE	0.022	mg/kg	0.057	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
BENZO(B)FLUORANTHENE	0.22	mg/kg	0.045	NS	ND	ND	ND	ND	ND	ND	ND	ND	NA
BENZO(K)FLUORANTHENE	2.2	mg/kg	0.040	NS	ND	ND	ND	ND	ND	ND	ND	ND	NA
CHRYSENE	22	mg/kg	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NA
DIBENZO(A,H)ANTHRACENE	0.022	mg/kg	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NA
FLUORANTHENE	1,000	mg/kg	0.049	NS	ND	ND	ND	ND	ND	ND	ND	0.0081	NA
FLUORENE	1,000	mg/kg	0.029	NS	ND	ND	ND	ND	ND	ND	ND	ND	NA
INDENO(1,2,3-CD)PYRENE	0.22	mg/kg	0.050	NS	ND	ND	ND	ND	ND	ND	ND	ND	NA
NAPHTHALENE	23	mg/kg	0.022	NS	ND	ND	ND	ND	ND	0.018	0.014	0.017	NA
PYRENE	1,000	mg/kg	0.029	NS	ND	ND	ND	ND	ND	ND	ND	0.0093	NA
Metals													
MERCURY	23	mg/kg	0.042	NS	0.019	ND	0.033	0.027	0.023	0.026	0.022	0.021	NA
ARSENIC	0.39	mg/kg	8.0	NS	11	7.0	7.2	8.5	10	12	10	13	39
BARIUM	15,000	mg/kg	110	NS	230	200	140	270	280	290	250	260	NA
CADMIUM	70	mg/kg	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NA
CHROMIUM (III)	120,000	mg/kg	8.3	NS	10	9.0	8.9	8.8	7.9	11	10	11	NA
CHROMIUM (VI)	23	mg/kg	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NA
COPPER	3,100	mg/kg	18	NS	16	17	18	16	15	21	21	21	NA
LEAD	400	mg/kg	15	NS	11	12	13	11	11	8.0	8.2	8.1	NA
NICKEL	1,600	mg/kg	17	NS	17	17	18	16	16	31	31	33	NA
SELENIUM	390	mg/kg	2.2	NS	ND	2.4	ND	2.1	ND	ND	ND	ND	NA
SILVER	390	mg/kg	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	NA
ZINC	23,000	mg/kg	73	NS	58	58	65	59	54	61	65	61	NA
Inorganics													
Sodium Adsorption Ratio	<12	unitless	7.0	NS	9.1	16	37	13	4.1	9.8	11	10	2.8
Electric Conductivity	<4mmhos/cm or 2x background	mmhos/cm	7.9	NS	8.5	12	2.4	10	7.5	10	10	12	1.2
pH	6 to 9	SU	7.3	NS	7.7	7.6	8.4	8.0	8.0	8.6	8.7	8.4	9.1

Notes:

* This background sample was collected near another pad location, Chevron 41-8D (COGCC Location ID 324196)

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

TPH (DRO) - total petroleum hydrocarbons - Diesel range organics

TPH (GRO) - total petroleum hydrocarbons - Gasoline range organics

TPH - total petroleum hydrocarbons (TPH-GRO and TPH-DRO combined)

COGCC - Colorado Oil and Gas Conservation Commission



05-May-2014

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

Re: **Caerus Garden Gulch 1 PBV Removal 4.24.14**

Work Order: **14041288**

Dear Mark,

ALS Environmental received 3 samples on 25-Apr-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 28.

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

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 PBV Removal 4.24.14
Work Order: 14041288

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>
14041288-01	Footprint, 28'	Soil		4/24/2014 15:40	4/25/2014 09:30	<input type="checkbox"/>
14041288-02	West Wall, 15'	Soil		4/24/2014 11:40	4/25/2014 09:30	<input type="checkbox"/>
14041288-03	North Wall, 15'	Soil		4/24/2014 14:20	4/25/2014 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 PBV Removal 4.24.14
Work Order: 14041288

Case Narrative

Batch 58026 sample North Wall, 15' MS/MSD recoveries for Hexavalent Chromium were below control limits. The corresponding result in the parent sample may be biased low.

Batch 58070 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

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

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

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

ALS Group USA, Corp

Date: 05-May-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 PBV Removal 4.24.14
Sample ID: Footprint, 28'
Collection Date: 4/24/2014 03:40 PM

Work Order: 14041288
Lab ID: 14041288-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 4/25/14	Analyst: IT
DRO (C10-C28)	17		4.7	mg/Kg-dry	1	4/28/2014 11:57 AM
<i>Surr: 4-Terphenyl-d14</i>	77.6		39-133	%REC	1	4/28/2014 11:57 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 4/25/14	Analyst: IT
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	4/25/2014 08:55 PM
<i>Surr: Toluene-d8</i>	94.9		50-150	%REC	1	4/25/2014 08:55 PM
MERCURY BY CVAA			SW7471		Prep: SW7471 / 4/28/14	Analyst: LR
Mercury	0.042		0.015	mg/Kg-dry	1	4/28/2014 08:31 PM
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 4/29/14	Analyst: ML
Arsenic	8.0		1.9	mg/Kg-dry	5	4/30/2014 01:22 AM
Barium	110		1.9	mg/Kg-dry	5	4/30/2014 01:22 AM
Cadmium	ND		0.76	mg/Kg-dry	5	4/30/2014 01:22 AM
Chromium	8.5		1.9	mg/Kg-dry	5	4/30/2014 01:22 AM
Copper	18		1.9	mg/Kg-dry	5	4/30/2014 01:22 AM
Lead	15		1.9	mg/Kg-dry	5	4/30/2014 01:22 AM
Nickel	17		1.9	mg/Kg-dry	5	4/30/2014 01:22 AM
Selenium	2.2		1.9	mg/Kg-dry	5	4/30/2014 01:22 AM
Silver	ND		1.9	mg/Kg-dry	5	4/30/2014 01:22 AM
Zinc	73		3.8	mg/Kg-dry	5	4/30/2014 01:22 AM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep: USDA Method 20B / 4/29/14	Analyst: RH
Calcium	500		10	mg/L	20	5/2/2014 03:28 PM
Magnesium	310		4.0	mg/L	20	5/2/2014 03:28 PM
Sodium	810		4.0	mg/L	20	5/2/2014 03:28 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 4/29/14	Analyst: RH
Sodium Adsorption Ratio	7.0		0.010	none	1	5/2/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3541 / 4/25/14	Analyst: RM
Acenaphthene	ND		7.6	µg/Kg-dry	1	4/28/2014 03:04 PM
Acenaphthylene	ND		7.6	µg/Kg-dry	1	4/28/2014 03:04 PM
Anthracene	40		7.6	µg/Kg-dry	1	4/28/2014 03:04 PM
Benzo(a)anthracene	26		7.6	µg/Kg-dry	1	4/28/2014 03:04 PM
Benzo(a)pyrene	57		7.6	µg/Kg-dry	1	4/28/2014 03:04 PM
Benzo(b)fluoranthene	45		7.6	µg/Kg-dry	1	4/28/2014 03:04 PM
Benzo(g,h,i)perylene	32		7.6	µg/Kg-dry	1	4/28/2014 03:04 PM
Benzo(k)fluoranthene	40		7.6	µg/Kg-dry	1	4/28/2014 03:04 PM
Chrysene	ND		7.6	µg/Kg-dry	1	4/28/2014 03:04 PM

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

ALS Group USA, Corp

Date: 05-May-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 PBV Removal 4.24.14
Sample ID: Footprint, 28'
Collection Date: 4/24/2014 03:40 PM

Work Order: 14041288
Lab ID: 14041288-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.6	µg/Kg-dry	1	4/28/2014 03:04 PM
Fluoranthene	49		7.6	µg/Kg-dry	1	4/28/2014 03:04 PM
Fluorene	29		7.6	µg/Kg-dry	1	4/28/2014 03:04 PM
Indeno(1,2,3-cd)pyrene	50		7.6	µg/Kg-dry	1	4/28/2014 03:04 PM
Naphthalene	22		7.6	µg/Kg-dry	1	4/28/2014 03:04 PM
Pyrene	29		7.6	µg/Kg-dry	1	4/28/2014 03:04 PM
Surr: 2-Fluorobiphenyl	76.6		12-100	%REC	1	4/28/2014 03:04 PM
Surr: 4-Terphenyl-d14	106		25-137	%REC	1	4/28/2014 03:04 PM
Surr: Nitrobenzene-d5	68.2		37-107	%REC	1	4/28/2014 03:04 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 4/25/14	Analyst: AK
Benzene	ND		35	µg/Kg-dry	1	4/26/2014 03:16 AM
Ethylbenzene	ND		35	µg/Kg-dry	1	4/26/2014 03:16 AM
m,p-Xylene	ND		69	µg/Kg-dry	1	4/26/2014 03:16 AM
o-Xylene	ND		35	µg/Kg-dry	1	4/26/2014 03:16 AM
Toluene	ND		35	µg/Kg-dry	1	4/26/2014 03:16 AM
Xylenes, Total	ND		100	µg/Kg-dry	1	4/26/2014 03:16 AM
Surr: 1,2-Dichloroethane-d4	78.2		70-130	%REC	1	4/26/2014 03:16 AM
Surr: 4-Bromofluorobenzene	98.0		70-130	%REC	1	4/26/2014 03:16 AM
Surr: Dibromofluoromethane	90.1		70-130	%REC	1	4/26/2014 03:16 AM
Surr: Toluene-d8	97.6		70-130	%REC	1	4/26/2014 03:16 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 4/29/14	Analyst: JB
Electrical Conductivity @ Saturation	7.9		0.050	mmhos/cm @25	10	4/30/2014 03:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	8.3		0.58	mg/Kg-dry	1	4/30/2014 04:26 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 4/28/14	Analyst: JJ
Chromium, Hexavalent	ND		0.58	mg/Kg-dry	1	4/28/2014 01:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	13		0.050	% of sample	1	4/25/2014 12:50 PM
PH			SW9045D		Prep: EXTRACT / 4/25/14	Analyst: AT
pH	7.3			s.u.	1	4/25/2014 04:00 PM

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

ALS Group USA, Corp

Date: 05-May-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 PBV Removal 4.24.14
Sample ID: West Wall, 15'
Collection Date: 4/24/2014 11:40 AM

Work Order: 14041288
Lab ID: 14041288-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	18		4.9	mg/Kg-dry	1	4/28/2014 12:27 PM
Surr: 4-Terphenyl-d14	76.1		39-133	%REC	1	4/28/2014 12:27 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	4/25/2014 09:21 PM
Surr: Toluene-d8	97.0		50-150	%REC	1	4/25/2014 09:21 PM
MERCURY BY CVAA						
Mercury	0.019		0.017	mg/Kg-dry	1	4/28/2014 08:40 PM
METALS BY ICP-MS						
Arsenic	11		2.3	mg/Kg-dry	5	4/30/2014 01:28 AM
Barium	230		2.3	mg/Kg-dry	5	4/30/2014 01:28 AM
Cadmium	ND		0.92	mg/Kg-dry	5	4/30/2014 01:28 AM
Chromium	10		2.3	mg/Kg-dry	5	4/30/2014 01:28 AM
Copper	16		2.3	mg/Kg-dry	5	4/30/2014 01:28 AM
Lead	11		2.3	mg/Kg-dry	5	4/30/2014 01:28 AM
Nickel	17		2.3	mg/Kg-dry	5	4/30/2014 01:28 AM
Selenium	ND		2.3	mg/Kg-dry	5	4/30/2014 01:28 AM
Silver	ND		2.3	mg/Kg-dry	5	4/30/2014 01:28 AM
Zinc	58		4.6	mg/Kg-dry	5	4/30/2014 01:28 AM
SOLUBLE CATIONS FOR SAR						
Calcium	480		10	mg/L	20	5/2/2014 03:34 PM
Magnesium	280		4.0	mg/L	20	5/2/2014 03:34 PM
Sodium	1,000		4.0	mg/L	20	5/2/2014 03:34 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	9.1		0.010	none	1	5/2/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		7.9	µg/Kg-dry	1	4/28/2014 03:24 PM
Acenaphthylene	ND		7.9	µg/Kg-dry	1	4/28/2014 03:24 PM
Anthracene	ND		7.9	µg/Kg-dry	1	4/28/2014 03:24 PM
Benzo(a)anthracene	ND		7.9	µg/Kg-dry	1	4/28/2014 03:24 PM
Benzo(a)pyrene	ND		7.9	µg/Kg-dry	1	4/28/2014 03:24 PM
Benzo(b)fluoranthene	ND		7.9	µg/Kg-dry	1	4/28/2014 03:24 PM
Benzo(g,h,i)perylene	ND		7.9	µg/Kg-dry	1	4/28/2014 03:24 PM
Benzo(k)fluoranthene	ND		7.9	µg/Kg-dry	1	4/28/2014 03:24 PM
Chrysene	ND		7.9	µg/Kg-dry	1	4/28/2014 03:24 PM

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

ALS Group USA, Corp

Date: 05-May-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 PBV Removal 4.24.14
Sample ID: West Wall, 15'
Collection Date: 4/24/2014 11:40 AM

Work Order: 14041288
Lab ID: 14041288-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.9	µg/Kg-dry	1	4/28/2014 03:24 PM
Fluoranthene	ND		7.9	µg/Kg-dry	1	4/28/2014 03:24 PM
Fluorene	ND		7.9	µg/Kg-dry	1	4/28/2014 03:24 PM
Indeno(1,2,3-cd)pyrene	ND		7.9	µg/Kg-dry	1	4/28/2014 03:24 PM
Naphthalene	ND		7.9	µg/Kg-dry	1	4/28/2014 03:24 PM
Pyrene	ND		7.9	µg/Kg-dry	1	4/28/2014 03:24 PM
Surr: 2-Fluorobiphenyl	66.8		12-100	%REC	1	4/28/2014 03:24 PM
Surr: 4-Terphenyl-d14	114		25-137	%REC	1	4/28/2014 03:24 PM
Surr: Nitrobenzene-d5	67.1		37-107	%REC	1	4/28/2014 03:24 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 4/25/14	Analyst: AK
Benzene	ND		36	µg/Kg-dry	1	4/26/2014 03:41 AM
Ethylbenzene	ND		36	µg/Kg-dry	1	4/26/2014 03:41 AM
m,p-Xylene	ND		71	µg/Kg-dry	1	4/26/2014 03:41 AM
o-Xylene	ND		36	µg/Kg-dry	1	4/26/2014 03:41 AM
Toluene	ND		36	µg/Kg-dry	1	4/26/2014 03:41 AM
Xylenes, Total	ND		110	µg/Kg-dry	1	4/26/2014 03:41 AM
Surr: 1,2-Dichloroethane-d4	78.9		70-130	%REC	1	4/26/2014 03:41 AM
Surr: 4-Bromofluorobenzene	95.4		70-130	%REC	1	4/26/2014 03:41 AM
Surr: Dibromofluoromethane	88.0		70-130	%REC	1	4/26/2014 03:41 AM
Surr: Toluene-d8	95.4		70-130	%REC	1	4/26/2014 03:41 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 4/29/14	Analyst: JB
Electrical Conductivity @ Saturation	8.5		0.050	mmhos/cm @25	10	4/30/2014 03:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	10		0.60	mg/Kg-dry	1	4/30/2014 04:26 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 4/28/14	Analyst: JI
Chromium, Hexavalent	ND		0.60	mg/Kg-dry	1	4/28/2014 01:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	16		0.050	% of sample	1	4/25/2014 12:50 PM
PH			SW9045D		Prep: EXTRACT / 4/25/14	Analyst: AT
pH	7.7			s.u.	1	4/25/2014 04:00 PM

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

ALS Group USA, Corp

Date: 05-May-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 PBV Removal 4.24.14
Sample ID: North Wall, 15'
Collection Date: 4/24/2014 02:20 PM

Work Order: 14041288
Lab ID: 14041288-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	11		SW8015M		Prep: SW3541 / 4/25/14	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	79.7		4.9	mg/Kg-dry	1	4/28/2014 12:57 PM
			39-133	%REC	1	4/28/2014 12:57 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 4/25/14	Analyst: IT
<i>Surr: Toluene-d8</i>	107		3.0	mg/Kg-dry	1	4/25/2014 09:47 PM
			50-150	%REC	1	4/25/2014 09:47 PM
MERCURY BY CVAA						
Mercury	ND		SW7471		Prep: SW7471 / 4/28/14	Analyst: LR
			0.017	mg/Kg-dry	1	4/28/2014 08:42 PM
METALS BY ICP-MS						
Arsenic	7.0		SW6020A		Prep: SW3050B / 4/29/14	Analyst: ML
Barium	200		1.9	mg/Kg-dry	5	4/30/2014 01:34 AM
Cadmium	ND		1.9	mg/Kg-dry	5	4/30/2014 01:34 AM
Chromium	9.2		0.75	mg/Kg-dry	5	4/30/2014 01:34 AM
Copper	17		1.9	mg/Kg-dry	5	4/30/2014 01:34 AM
Lead	12		1.9	mg/Kg-dry	5	4/30/2014 01:34 AM
Nickel	17		1.9	mg/Kg-dry	5	4/30/2014 01:34 AM
Selenium	2.4		1.9	mg/Kg-dry	5	4/30/2014 01:34 AM
Silver	ND		1.9	mg/Kg-dry	5	4/30/2014 01:34 AM
Zinc	58		3.7	mg/Kg-dry	5	4/30/2014 01:34 AM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 4/29/14	Analyst: RH
Calcium	470		10	mg/L	20	5/2/2014 03:40 PM
Magnesium	280		4.0	mg/L	20	5/2/2014 03:40 PM
Sodium	1,800		4.0	mg/L	20	5/2/2014 03:40 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 4/29/14	Analyst: RH
Sodium Adsorption Ratio	16		0.010	none	1	5/2/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 4/25/14	Analyst: RM
Acenaphthene	ND		7.8	µg/Kg-dry	1	4/28/2014 01:41 PM
Acenaphthylene	ND		7.8	µg/Kg-dry	1	4/28/2014 01:41 PM
Anthracene	ND		7.8	µg/Kg-dry	1	4/28/2014 01:41 PM
Benzo(a)anthracene	ND		7.8	µg/Kg-dry	1	4/28/2014 01:41 PM
Benzo(a)pyrene	ND		7.8	µg/Kg-dry	1	4/28/2014 01:41 PM
Benzo(b)fluoranthene	ND		7.8	µg/Kg-dry	1	4/28/2014 01:41 PM
Benzo(g,h,i)perylene	ND		7.8	µg/Kg-dry	1	4/28/2014 01:41 PM
Benzo(k)fluoranthene	ND		7.8	µg/Kg-dry	1	4/28/2014 01:41 PM
Chrysene	ND		7.8	µg/Kg-dry	1	4/28/2014 01:41 PM

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

ALS Group USA, Corp

Date: 05-May-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 PBV Removal 4.24.14
Sample ID: North Wall, 15'
Collection Date: 4/24/2014 02:20 PM

Work Order: 14041288
Lab ID: 14041288-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.8	µg/Kg-dry	1	4/28/2014 01:41 PM
Fluoranthene	ND		7.8	µg/Kg-dry	1	4/28/2014 01:41 PM
Fluorene	ND		7.8	µg/Kg-dry	1	4/28/2014 01:41 PM
Indeno(1,2,3-cd)pyrene	ND		7.8	µg/Kg-dry	1	4/28/2014 01:41 PM
Naphthalene	ND		7.8	µg/Kg-dry	1	4/28/2014 01:41 PM
Pyrene	ND		7.8	µg/Kg-dry	1	4/28/2014 01:41 PM
Surr: 2-Fluorobiphenyl	67.0		12-100	%REC	1	4/28/2014 01:41 PM
Surr: 4-Terphenyl-d14	107		25-137	%REC	1	4/28/2014 01:41 PM
Surr: Nitrobenzene-d5	67.2		37-107	%REC	1	4/28/2014 01:41 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 4/25/14	Analyst: AK
Benzene	ND		36	µg/Kg-dry	1	4/26/2014 04:06 AM
Ethylbenzene	ND		36	µg/Kg-dry	1	4/26/2014 04:06 AM
m,p-Xylene	ND		72	µg/Kg-dry	1	4/26/2014 04:06 AM
o-Xylene	ND		36	µg/Kg-dry	1	4/26/2014 04:06 AM
Toluene	ND		36	µg/Kg-dry	1	4/26/2014 04:06 AM
Xylenes, Total	ND		110	µg/Kg-dry	1	4/26/2014 04:06 AM
Surr: 1,2-Dichloroethane-d4	79.4		70-130	%REC	1	4/26/2014 04:06 AM
Surr: 4-Bromofluorobenzene	96.0		70-130	%REC	1	4/26/2014 04:06 AM
Surr: Dibromofluoromethane	89.4		70-130	%REC	1	4/26/2014 04:06 AM
Surr: Toluene-d8	96.4		70-130	%REC	1	4/26/2014 04:06 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 4/29/14	Analyst: JB
Electrical Conductivity @ Saturation	12		0.050	mmhos/cm @25	10	4/30/2014 03:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	9.0		0.60	mg/Kg-dry	1	4/30/2014 04:26 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 4/28/14	Analyst: JJ
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	4/28/2014 01:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	16		0.050	% of sample	1	4/25/2014 12:50 PM
PH			SW9045D		Prep: EXTRACT / 4/25/14	Analyst: AT
pH	7.6			s.u.	1	4/25/2014 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: 14041288

Project: Caerus Garden Gulch 1 PBV Removal 4.24.14

Batch ID: 57977

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-57977-57977				Units: mg/Kg		Analysis Date: 4/28/2014 09:27 AM		
Client ID:		Run ID: GC8_140428A		SeqNo: 2734258		Prep Date: 4/25/2014		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>	1.326	0	1.667	0	79.5	39-133	0			

LCS		Sample ID: DLCSS1-57977-57977				Units: mg/Kg		Analysis Date: 4/28/2014 09:57 AM		
Client ID:		Run ID: GC8_140428A		SeqNo: 2734259		Prep Date: 4/25/2014		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>	1.374	0	1.667	0	82.5	39-133	0			

MS		Sample ID: 14041170-01B MS				Units: mg/Kg		Analysis Date: 4/28/2014 10:27 AM		
Client ID:		Run ID: GC8_140428A		SeqNo: 2734261		Prep Date: 4/25/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	552.2	8.1	324.7	320.4	71.4	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	2.67	0	3.247	0	82.2	39-133	0			

MSD		Sample ID: 14041170-01B MSD				Units: mg/Kg		Analysis Date: 4/28/2014 10:57 AM		
Client ID:		Run ID: GC8_140428A		SeqNo: 2734263		Prep Date: 4/25/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	553.8	8.3	331.9	320.4	70.3	48-110	552.2	0.301	30	
<i>Surr: 4-Terphenyl-d14</i>	3.173	0	3.319	0	95.6	39-133	2.67	17.2	30	

The following samples were analyzed in this batch:

14041288-01B	14041288-02B	14041288-03B
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Client: HRL Compliance Solutions, Inc
 Work Order: 14041288
 Project: Caerus Garden Gulch 1 PBV Removal 4.24.14

QC BATCH REPORT

Batch ID: 57976 Instrument ID GC9 Method: SW8015

MBLK		Sample ID: MBLK-57976-57976				Units: µg/Kg		Analysis Date: 4/25/2014 05:03 PM		
Client ID:		Run ID: GC9_140425A		SeqNo: 2733471		Prep Date: 4/25/2014		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>	4866	0	5000	0	97.3	50-150	0			

LCS		Sample ID: LCS-57976-57976				Units: µg/Kg		Analysis Date: 4/25/2014 03:47 PM		
Client ID:		Run ID: GC9_140425A		SeqNo: 2733470		Prep Date: 4/25/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	437100	2,500	500000	0	87.4	70-130	0			
<i>Surr: Toluene-d8</i>	4430	0	5000	0	88.6	50-150	0			

MS		Sample ID: 14041170-01A MS				Units: µg/Kg		Analysis Date: 4/26/2014 12:23 PM		
Client ID:		Run ID: GC9_140425A		SeqNo: 2733486		Prep Date: 4/25/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	506900	2,500	500000	0	101	70-130	0			
<i>Surr: Toluene-d8</i>	4826	0	5000	0	96.5	50-150	0			

MSD		Sample ID: 14041170-01A MSD				Units: µg/Kg		Analysis Date: 4/26/2014 12:49 PM		
Client ID:		Run ID: GC9_140425A		SeqNo: 2733487		Prep Date: 4/25/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	493100	2,500	500000	0	98.6	70-130	506900	2.76	30	
<i>Surr: Toluene-d8</i>	4780	0	5000	0	95.6	50-150	4826	0.979	30	

The following samples were analyzed in this batch:

14041288-01A	14041288-02A	14041288-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14041288
Project: Caerus Garden Gulch 1 PBV Removal 4.24.14

QC BATCH REPORT

Batch ID: **58010** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 14041291-01CDUP				Units: mg/L		Analysis Date: 5/2/2014 03:58 PM		
Client ID:		Run ID: ICPMS2_140502A				SeqNo: 2743177		Prep Date: 4/29/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	548	10	0	0	0	0-0	521.8	4.9		
Magnesium	170	4.0	0	0	0	0-0	153	10.5		
Sodium	1497	4.0	0	0	0	0-0	1334	11.6		

DUP		Sample ID: 14041291-01CDUP				Units: none		Analysis Date: 5/2/2014		
Client ID:		Run ID: SAR_140502A				SeqNo: 2743414		Prep Date: 4/29/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	14.32	0.010	0	0	0		13.2	8.16	50	

The following samples were analyzed in this batch:

14041288-01C	14041288-02C	14041288-03C
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Client: HRL Compliance Solutions, Inc
Work Order: 14041288
Project: Caerus Garden Gulch 1 PBV Removal 4.24.14

QC BATCH REPORT

Batch ID: **58070** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-58070-58070				Units: mg/Kg		Analysis Date: 4/29/2014 10:44 PM		
Client ID:		Run ID: ICPMS1_140429A		SeqNo: 2737236		Prep Date: 4/29/2014		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								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.03112	0.50								J

LCS		Sample ID: LCS-58070-58070				Units: mg/Kg		Analysis Date: 4/29/2014 10:50 PM		
Client ID:		Run ID: ICPMS1_140429A		SeqNo: 2737237		Prep Date: 4/29/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.471	0.25	5	0	89.4	80-120	0			
Barium	4.77	0.25	5	0	95.4	80-120	0			
Cadmium	4.588	0.10	5	0	91.8	80-120	0			
Chromium	4.666	0.25	5	0	93.3	80-120	0			
Copper	4.572	0.25	5	0	91.4	80-120	0			
Lead	4.83	0.25	5	0	96.6	80-120	0			
Nickel	4.642	0.25	5	0	92.8	80-120	0			
Selenium	4.045	0.25	5	0	80.9	80-120	0			
Silver	4.448	0.25	5	0	89	80-120	0			
Zinc	4.096	0.50	5	0	81.9	80-120	0			

MS		Sample ID: 14041170-01BMS				Units: mg/Kg		Analysis Date: 4/29/2014 11:31 PM		
Client ID:		Run ID: ICPMS1_140429A		SeqNo: 2737245		Prep Date: 4/29/2014		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.17	2.0	8.183	4.179	110	75-125	0			
Barium	336.9	2.0	8.183	346.6	-118	75-125	0			SO
Cadmium	7.958	0.82	8.183	0.1982	94.8	75-125	0			
Chromium	32.82	2.0	8.183	24.07	107	75-125	0			
Copper	18.69	2.0	8.183	10.25	103	75-125	0			
Lead	20.95	2.0	8.183	11.03	121	75-125	0			
Nickel	21.88	2.0	8.183	13.64	101	75-125	0			
Selenium	9.251	2.0	8.183	1.75	91.7	75-125	0			
Silver	6.862	2.0	8.183	0.05732	83.1	75-125	0			
Zinc	49.8	4.1	8.183	39.01	132	75-125	0			SO

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

Client: HRL Compliance Solutions, Inc
Work Order: 14041288
Project: Caerus Garden Gulch 1 PBV Removal 4.24.14

QC BATCH REPORT

Batch ID: **58070** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 14041170-01BMSD				Units: mg/Kg		Analysis Date: 4/29/2014 11:37 PM		
Client ID:		Run ID: ICPMS1_140429A			SeqNo: 2737258		Prep Date: 4/29/2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.46	2.1	8.21	4.179	101	75-125	13.17	5.56	25	
Barium	373	2.1	8.21	346.6	322	75-125	336.9	10.2	25	SO
Cadmium	7.976	0.82	8.21	0.1982	94.7	75-125	7.958	0.225	25	
Chromium	32.14	2.1	8.21	24.07	98.2	75-125	32.82	2.09	25	
Copper	17.41	2.1	8.21	10.25	87.2	75-125	18.69	7.07	25	
Lead	19.25	2.1	8.21	11.03	100	75-125	20.95	8.46	25	
Nickel	21.33	2.1	8.21	13.64	93.7	75-125	21.88	2.54	25	
Selenium	8.76	2.1	8.21	1.75	85.4	75-125	9.251	5.45	25	
Silver	6.925	2.1	8.21	0.05732	83.7	75-125	6.862	0.922	25	
Zinc	46.14	4.1	8.21	39.01	86.8	75-125	49.8	7.62	25	O

The following samples were analyzed in this batch:

14041288-01B	14041288-02B	14041288-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
 Work Order: 14041288
 Project: Caerus Garden Gulch 1 PBV Removal 4.24.14

QC BATCH REPORT

Batch ID: 57993 Instrument ID SVMS8 Method: SW8270

MBLK		Sample ID: SBLKS1-57993-57993				Units: µg/Kg		Analysis Date: 4/28/2014 11:10 AM		
Client ID:		Run ID: SVMS8_140428A			SeqNo: 2734528		Prep Date: 4/25/2014		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								
Surr: 2-Fluorobiphenyl	1263	0	1667	0	75.8	12-100	0			
Surr: 4-Terphenyl-d14	1919	0	1667	0	115	25-137	0			
Surr: Nitrobenzene-d5	1193	0	1667	0	71.6	37-107	0			

LCS		Sample ID: SLCSS1-57993-57993				Units: µg/Kg		Analysis Date: 4/28/2014 11:30 AM		
Client ID:		Run ID: SVMS8_140428A			SeqNo: 2734529		Prep Date: 4/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	464	6.7	666.7	0	69.6	45-110	0			
Acenaphthylene	464	6.7	666.7	0	69.6	45-105	0			
Anthracene	497.3	6.7	666.7	0	74.6	55-105	0			
Benzo(a)anthracene	515.3	6.7	666.7	0	77.3	50-110	0			
Benzo(a)pyrene	511.7	6.7	666.7	0	76.7	50-110	0			
Benzo(b)fluoranthene	536	6.7	666.7	0	80.4	45-115	0			
Benzo(g,h,i)perylene	447	6.7	666.7	0	67	40-125	0			
Benzo(k)fluoranthene	538	6.7	666.7	0	80.7	45-115	0			
Chrysene	554.7	6.7	666.7	0	83.2	55-110	0			
Dibenzo(a,h)anthracene	434	6.7	666.7	0	65.1	40-125	0			
Fluoranthene	518.3	6.7	666.7	0	77.7	55-115	0			
Fluorene	548.3	6.7	666.7	0	82.2	50-110	0			
Indeno(1,2,3-cd)pyrene	432.7	6.7	666.7	0	64.9	40-120	0			
Naphthalene	464	6.7	666.7	0	69.6	40-105	0			
Pyrene	576	6.7	666.7	0	86.4	45-125	0			
Surr: 2-Fluorobiphenyl	1220	0	1667	0	73.2	12-100	0			
Surr: 4-Terphenyl-d14	1754	0	1667	0	105	25-137	0			
Surr: Nitrobenzene-d5	1211	0	1667	0	72.7	37-107	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14041288
 Project: Caerus Garden Gulch 1 PBV Removal 4.24.14

QC BATCH REPORT

Batch ID: 57993 Instrument ID SVMS8 Method: SW8270

MS				Sample ID: 14041288-03B MS			Units: µg/Kg		Analysis Date: 4/28/2014 01:00 PM		
Client ID: North Wall, 15'				Run ID: SVMS8_140428A			SeqNo: 2734530		Prep Date: 4/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	895.5	13	1269	0	70.6	45-110	0				
Acenaphthylene	903.2	13	1269	0	71.2	45-105	0				
Anthracene	972.9	13	1269	0	76.7	55-105	0				
Benzo(a)anthracene	997	13	1269	0	78.6	50-110	0				
Benzo(a)pyrene	978	13	1269	0	77.1	50-110	0				
Benzo(b)fluoranthene	1043	13	1269	0	82.2	45-115	0				
Benzo(g,h,i)perylene	970.4	13	1269	0	76.5	40-125	0				
Benzo(k)fluoranthene	1029	13	1269	0	81.1	45-115	0				
Chrysene	1095	13	1269	0	86.3	55-110	0				
Dibenzo(a,h)anthracene	904.4	13	1269	0	71.3	40-125	0				
Fluoranthene	986.2	13	1269	0	77.7	55-115	0				
Fluorene	1019	13	1269	0	80.3	50-110	0				
Indeno(1,2,3-cd)pyrene	872.1	13	1269	0	68.7	40-120	0				
Naphthalene	886.7	13	1269	0	69.9	40-105	0				
Pyrene	1162	13	1269	0	91.6	45-125	0				
Surr: 2-Fluorobiphenyl	2294	0	3171	0	72.3	12-100	0				
Surr: 4-Terphenyl-d14	3439	0	3171	0	108	25-137	0				
Surr: Nitrobenzene-d5	2331	0	3171	0	73.5	37-107	0				

MSD				Sample ID: 14041288-03B MSD			Units: µg/Kg		Analysis Date: 4/28/2014 01:21 PM		
Client ID: North Wall, 15'				Run ID: SVMS8_140428A			SeqNo: 2734531		Prep Date: 4/25/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	925.2	13	1324	0	69.9	45-110	895.5	3.25	30		
Acenaphthylene	948.3	13	1324	0	71.6	45-105	903.2	4.88	30		
Anthracene	1017	13	1324	0	76.8	55-105	972.9	4.44	30		
Benzo(a)anthracene	1048	13	1324	0	79.1	50-110	997	4.95	30		
Benzo(a)pyrene	1036	13	1324	0	78.3	50-110	978	5.79	30		
Benzo(b)fluoranthene	1047	13	1324	0	79.1	45-115	1043	0.405	30		
Benzo(g,h,i)perylene	1008	13	1324	0	76.1	40-125	970.4	3.79	30		
Benzo(k)fluoranthene	1079	13	1324	0	81.5	45-115	1029	4.8	30		
Chrysene	1123	13	1324	0	84.8	55-110	1095	2.5	30		
Dibenzo(a,h)anthracene	939.1	13	1324	0	70.9	40-125	904.4	3.76	30		
Fluoranthene	1028	13	1324	0	77.6	55-115	986.2	4.12	30		
Fluorene	1069	13	1324	0	80.8	50-110	1019	4.87	30		
Indeno(1,2,3-cd)pyrene	979.4	13	1324	0	74	40-120	872.1	11.6	30		
Naphthalene	949.6	13	1324	0	71.7	40-105	886.7	6.86	30		
Pyrene	1196	13	1324	0	90.3	45-125	1162	2.88	30		
Surr: 2-Fluorobiphenyl	2453	0	3309	0	74.1	12-100	2294	6.7	40		
Surr: 4-Terphenyl-d14	3499	0	3309	0	106	25-137	3439	1.75	40		
Surr: Nitrobenzene-d5	2564	0	3309	0	77.5	37-107	2331	9.54	40		

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

Client: HRL Compliance Solutions, Inc
Work Order: 14041288
Project: Caerus Garden Gulch 1 PBV Removal 4.24.14

QC BATCH REPORT

Batch ID: **57993** Instrument ID **SVMS8** Method: **SW8270**

The following samples were analyzed in this batch:

14041288-01B	14041288-02B	14041288-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
 Work Order: 14041288
 Project: Caerus Garden Gulch 1 PBV Removal 4.24.14

QC BATCH REPORT

Batch ID: 57978 Instrument ID VMS5 Method: SW8260B

MBLK		Sample ID: MBLK-57978-57978				Units: µg/Kg		Analysis Date: 4/25/2014 05:44 PM		
Client ID:		Run ID: VMS5_140425A			SeqNo: 2732181		Prep Date: 4/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	958.5	0	1000	0	95.8	70-130	0			
Surr: 4-Bromofluorobenzene	898.5	0	1000	0	89.8	70-130	0			
Surr: Dibromofluoromethane	991	0	1000	0	99.1	70-130	0			
Surr: Toluene-d8	980.5	0	1000	0	98	70-130	0			

LCS		Sample ID: LCS-57978-57978				Units: µg/Kg		Analysis Date: 4/25/2014 04:27 PM		
Client ID:		Run ID: VMS5_140425A			SeqNo: 2732180		Prep Date: 4/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	992	30	1000	0	99.2	75-125	0			
Ethylbenzene	1040	30	1000	0	104	75-125	0			
m,p-Xylene	2068	60	2000	0	103	80-125	0			
o-Xylene	1019	30	1000	0	102	75-125	0			
Toluene	1018	30	1000	0	102	70-125	0			
Xylenes, Total	3088	90	3000	0	103	75-125	0			
Surr: 1,2-Dichloroethane-d4	959.5	0	1000	0	96	70-130	0			
Surr: 4-Bromofluorobenzene	935	0	1000	0	93.5	70-130	0			
Surr: Dibromofluoromethane	1012	0	1000	0	101	70-130	0			
Surr: Toluene-d8	980	0	1000	0	98	70-130	0			

MS		Sample ID: 14041228-01A MS				Units: µg/Kg		Analysis Date: 5/1/2014 12:02 PM		
Client ID:		Run ID: VMS8_140430A			SeqNo: 2739030		Prep Date: 4/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	973	30	1000	0	97.3	75-125	0			
Ethylbenzene	914	30	1000	0	91.4	75-125	0			
m,p-Xylene	1934	60	2000	119.5	90.8	80-125	0			
o-Xylene	953.5	30	1000	0	95.4	75-125	0			
Toluene	943	30	1000	0	94.3	70-125	0			
Xylenes, Total	2888	90	3000	120	92.3	75-125	0			
Surr: 1,2-Dichloroethane-d4	1078	0	1000	0	108	70-130	0			
Surr: 4-Bromofluorobenzene	1010	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	998	0	1000	0	99.8	70-130	0			
Surr: Toluene-d8	1004	0	1000	0	100	70-130	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14041288
Project: Caerus Garden Gulch 1 PBV Removal 4.24.14

QC BATCH REPORT

Batch ID: **57978** Instrument ID **VMS5** Method: **SW8260B**

MSD		Sample ID: 14041228-01A MSD				Units: µg/Kg		Analysis Date: 5/1/2014 12:27 PM		
Client ID:		Run ID: VMS8_140430A			SeqNo: 2739031		Prep Date: 4/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	981	30	1000	0	98.1	75-125	973	0.819	30	
Ethylbenzene	947.5	30	1000	0	94.8	75-125	914	3.6	30	
m,p-Xylene	1979	60	2000	119.5	93	80-125	1934	2.27	30	
o-Xylene	985	30	1000	0	98.5	75-125	953.5	3.25	30	
Toluene	955	30	1000	0	95.5	70-125	943	1.26	30	
Xylenes, Total	2964	90	3000	120	94.8	75-125	2888	2.6	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	1064	0	1000	0	106	70-130	1078	1.21	30	
<i>Surr: 4-Bromofluorobenzene</i>	1029	0	1000	0	103	70-130	1010	1.81	30	
<i>Surr: Dibromofluoromethane</i>	993	0	1000	0	99.3	70-130	998	0.502	30	
<i>Surr: Toluene-d8</i>	996.5	0	1000	0	99.6	70-130	1004	0.75	30	

The following samples were analyzed in this batch:

14041288-01A	14041288-02A	14041288-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14041288
Project: Caerus Garden Gulch 1 PBV Removal 4.24.14

QC BATCH REPORT

Batch ID: **57995** Instrument ID **WETCHEM** Method: **SW9045D**

LCS	Sample ID: LCS-57995-57995		Units: s.u.		Analysis Date: 4/25/2014 04:00 PM					
Client ID:	Run ID: WETCHEM_140425L		SeqNo: 2730889		Prep Date: 4/25/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 3.95 0 4 0 98.8 90-110 0

DUP	Sample ID: 14041288-01B DUP		Units: s.u.		Analysis Date: 4/25/2014 04:00 PM					
Client ID: Footprint, 28'	Run ID: WETCHEM_140425L		SeqNo: 2730891		Prep Date: 4/25/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 7.41 0 0 0 0 0-0 7.33 1.09 20

DUP	Sample ID: 14041301-05A DUP		Units: s.u.		Analysis Date: 4/25/2014 04:00 PM					
Client ID:	Run ID: WETCHEM_140425L		SeqNo: 2730901		Prep Date: 4/25/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 7.34 0 0 0 0 0-0 7.37 0.408 20

The following samples were analyzed in this batch:

14041288-01B	14041288-02B	14041288-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14041288
Project: Caerus Garden Gulch 1 PBV Removal 4.24.14

QC BATCH REPORT

Batch ID: **58010** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP	Sample ID: 14041291-01C DUP		Units: mmhos/cm @25°C		Analysis Date: 4/30/2014 03:00 PM					
Client ID:	Run ID: WETCHEM_140430K		SeqNo: 2738243		Prep Date: 4/29/2014 DF: 10					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	10.12	0.050	0	0	0		9.32	8.23	50	

The following samples were analyzed in this batch:

14041288-01C	14041288-02C	14041288-03C
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
 Work Order: 14041288
 Project: Caerus Garden Gulch 1 PBV Removal 4.24.14

QC BATCH REPORT

Batch ID: **58026** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-58026-58026				Units: mg/Kg		Analysis Date: 4/28/2014 01:00 PM		
Client ID:		Run ID: WETCHEM_140428I		SeqNo: 2734653		Prep Date: 4/28/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.49

LCS		Sample ID: LCS-58026-58026				Units: mg/Kg		Analysis Date: 4/28/2014 01:00 PM		
Client ID:		Run ID: WETCHEM_140428I		SeqNo: 2734654		Prep Date: 4/28/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.573 0.49 1.961 0 80.2 80-120 0

MS		Sample ID: 14041288-03BMS				Units: mg/Kg		Analysis Date: 4/28/2014 01:00 PM		
Client ID: North Wall, 15'		Run ID: WETCHEM_140428I		SeqNo: 2734659		Prep Date: 4/28/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.9516 0.50 2.016 0.1818 38.2 75-125 0 S

MS		Sample ID: 14041288-03BMSI				Units: mg/Kg		Analysis Date: 4/28/2014 01:00 PM		
Client ID: North Wall, 15'		Run ID: WETCHEM_140428I		SeqNo: 2734661		Prep Date: 4/28/2014		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 199.6 50 1092 0.1818 18.3 75-125 0 S

MSD		Sample ID: 14041288-03BMSD				Units: mg/Kg		Analysis Date: 4/28/2014 01:00 PM		
Client ID: North Wall, 15'		Run ID: WETCHEM_140428I		SeqNo: 2734660		Prep Date: 4/28/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.087 0.50 1.984 0.1818 45.6 75-125 0.9516 13.3 20 S

The following samples were analyzed in this batch:

14041288-01B	14041288-02B	14041288-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
 Work Order: 14041288
 Project: Caerus Garden Gulch 1 PBV Removal 4.24.14

QC BATCH REPORT

Batch ID: **R139636** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R139636				Units: % of sample			Analysis Date: 4/25/2014 12:50 PM		
Client ID:	Run ID: MOIST_140425A			SeqNo: 2731377		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-R139636				Units: % of sample			Analysis Date: 4/25/2014 12:50 PM		
Client ID:	Run ID: MOIST_140425A			SeqNo: 2731376		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: 14041288-01B DUP				Units: % of sample			Analysis Date: 4/25/2014 12:50 PM		
Client ID: Footprint, 28'	Run ID: MOIST_140425A			SeqNo: 2731362		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 13.72 0.050 0 0 0 0-0 13.3 3.11 20

DUP	Sample ID: 14041301-05A DUP				Units: % of sample			Analysis Date: 4/25/2014 12:50 PM		
Client ID:	Run ID: MOIST_140425A			SeqNo: 2731372		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 38.2 0.050 0 0 0 0-0 37.69 1.34 20

The following samples were analyzed in this batch:

14041288-01B	14041288-02B	14041288-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **25-Apr-14 09:30**

Work Order: **14041288**

Received by: **DS**

Checklist completed by Diane Shaw 25-Apr-14
eSignature Date

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

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

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="2.6 c"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="4/25/2014 12:21:56 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"/>		

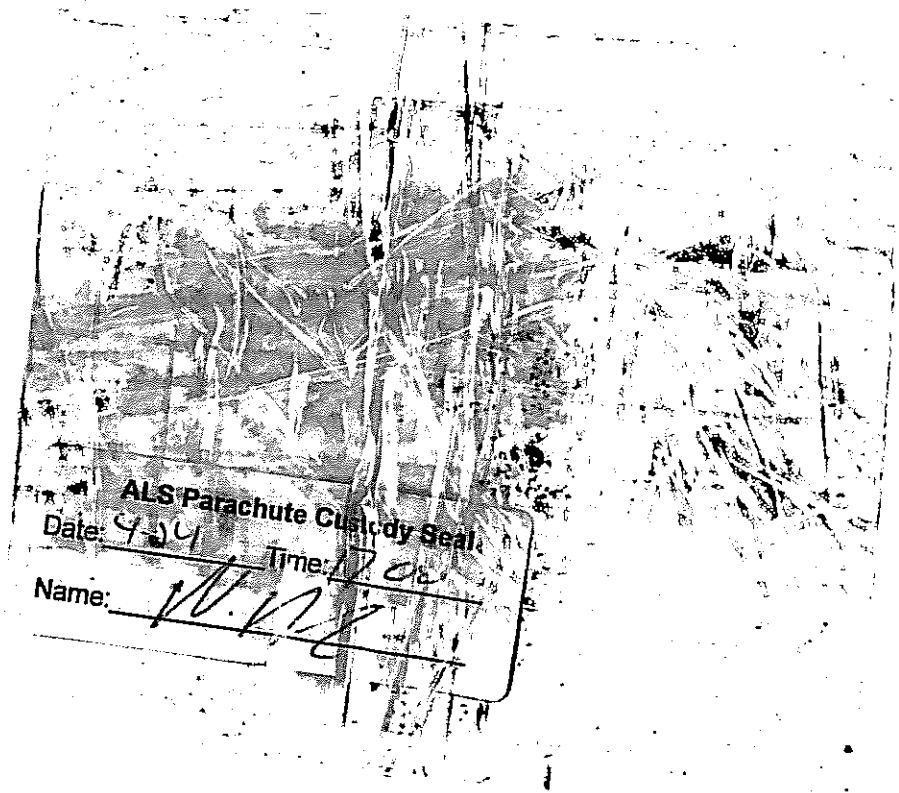
Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



ALS Parachute Custody Seal

Date: 4-24 Time: 17:00

Name: M. N. J.



01-May-2014

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

Re: **Caerus Garden Gulch 1 PBV Removal 4.29.14**

Work Order: **14041495**

Dear Mark,

ALS Environmental received 1 sample on 30-Apr-2014 10:00 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 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

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 Garden Gulch 1 PBV Removal 4.29.14
Work Order: 14041495

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>
14041495-01	Footprint, 30'	Soil		4/29/2014 09:20	4/30/2014 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 PBV Removal 4.29.14
WorkOrder: 14041495

**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: 01-May-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 PBV Removal 4.29.14
Sample ID: Footprint, 30'
Collection Date: 4/29/2014 09:20 AM

Work Order: 14041495
Lab ID: 14041495-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3541 / 4/30/14	Analyst: RM
Benzo(a)pyrene	ND		7.6	µg/Kg-dry	1	5/1/2014 12:03 AM
Surr: 2-Fluorobiphenyl	64.3		12-100	%REC	1	5/1/2014 12:03 AM
Surr: 4-Terphenyl-d14	105		25-137	%REC	1	5/1/2014 12:03 AM
Surr: Nitrobenzene-d5	62.2		37-107	%REC	1	5/1/2014 12:03 AM
MOISTURE			A2540 G			Analyst: AT
Moisture	14		0.050	% of sample	1	4/30/2014 11:43 AM

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

Client: HRL Compliance Solutions, Inc

QC BATCH REPORT

Work Order: 14041495

Project: Caerus Garden Gulch 1 PBV Removal 4.29.14

Batch ID: **58109**

Instrument ID **SVMS8**

Method: **SW8270**

MBLK		Sample ID: SBLKS1-58109-58109				Units: µg/Kg		Analysis Date: 4/30/2014 04:14 PM		
Client ID:		Run ID: SVMS8_140430A				SeqNo: 2740531		Prep Date: 4/30/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(a)pyrene	ND	6.7								
<i>Surr: 2-Fluorobiphenyl</i>	1233	0	1667	0	74	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1947	0	1667	0	117	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1109	0	1667	0	66.6	37-107	0			

LCS		Sample ID: SLCSS1-58109-58109				Units: µg/Kg		Analysis Date: 4/30/2014 04:34 PM		
Client ID:		Run ID: SVMS8_140430A				SeqNo: 2740532		Prep Date: 4/30/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(a)pyrene	571	6.7	666.7	0	85.6	50-110	0			
<i>Surr: 2-Fluorobiphenyl</i>	1267	0	1667	0	76	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1883	0	1667	0	113	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1232	0	1667	0	73.9	37-107	0			

MS		Sample ID: 14041347-01B MS				Units: µg/Kg		Analysis Date: 4/30/2014 05:22 PM		
Client ID:		Run ID: SVMS8_140430A				SeqNo: 2740533		Prep Date: 4/30/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(a)pyrene	1275	13	1277	54.86	95.5	50-110	0			
<i>Surr: 2-Fluorobiphenyl</i>	2336	0	3193	0	73.2	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	3256	0	3193	0	102	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	2261	0	3193	0	70.8	37-107	0			

MSD		Sample ID: 14041347-01B MSD				Units: µg/Kg		Analysis Date: 4/30/2014 05:42 PM		
Client ID:		Run ID: SVMS8_140430A				SeqNo: 2740534		Prep Date: 4/30/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(a)pyrene	1148	13	1281	54.86	85.4	50-110	1275	10.5	30	
<i>Surr: 2-Fluorobiphenyl</i>	2122	0	3202	0	66.3	12-100	2336	9.59	40	
<i>Surr: 4-Terphenyl-d14</i>	3469	0	3202	0	108	25-137	3256	6.34	40	
<i>Surr: Nitrobenzene-d5</i>	2205	0	3202	0	68.9	37-107	2261	2.47	40	

The following samples were analyzed in this batch:

14041495-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14041495
Project: Caerus Garden Gulch 1 PBV Removal 4.29.14

QC BATCH REPORT

Batch ID: **R139930** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R139930		Units: % of sample		Analysis Date: 4/30/2014 11:43 AM					
Client ID:	Run ID: MOIST_140430A		SeqNo: 2739494		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-R139930		Units: % of sample		Analysis Date: 4/30/2014 11:43 AM					
Client ID:	Run ID: MOIST_140430A		SeqNo: 2739493		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: 14041495-01A DUP		Units: % of sample		Analysis Date: 4/30/2014 11:43 AM					
Client ID: Footprint, 30'	Run ID: MOIST_140430A		SeqNo: 2739492		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 14.74 0.050 0 0 0 0-0 13.59 8.12 20

The following samples were analyzed in this batch:

14041495-01A



ALS Laboratory Group

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

Chain-of-Custody

Form 202r8

WORKORDER #	14041495
PAGE	1 of 1

PROJECT NAME	CAERUS GARDEN GULCH I		SAMPLER	Casey Richardson		DATE	4.29.14	
PROJECT No.	PBV REMOVAL		SITE ID			TURNAROUND	24 HR	
	# 13-197-15		EDD FORMAT					
COMPANY NAME	HCSI		PURCHASE ORDER					
SEND REPORT TO	MARK MUMBY		BILL TO COMPANY	Caerus Piceance LLC				
ADDRESS	2385 F 1/2 Road		INVOICE ATTN TO	Ed Winters				
CITY/STATE/ZIP	Grand Junction, CO. 81505		ADDRESS	120 Railroad Ave. Suite D				
PHONE	970-243-3271		CITY/STATE/ZIP	Parachute, CO 81635				
FAX	970-243-3280		PHONE	970-285-9606				
E-MAIL	crichardson@hcsi.com		E-MAIL	ewinters@caerusoilandgas.com				
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	
1	FOOTPRINT, 30'	SOIL	4.29.14	920	1	8		X BENZO (A) PYRENE

*Time Zone (Circle): EST CST AST 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 II (Standard QC)
	<input type="checkbox"/> LEVEL III (Std QC + forms)
	<input type="checkbox"/> LEVEL IV (Std QC + forms + raw data)

5.0

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	4.29.14	1232
RECEIVED BY		N.M.	4.29.14	12:39
RELINQUISHED BY		N.M.	4.29.14	1240
RECEIVED BY		Diane F. Shaw	4/30/14	1000
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **30-Apr-14 10:00**

Work Order: **14041495**

Received by: **DS**

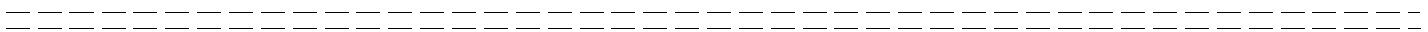
Checklist completed by Diane Shaw 30-Apr-14
eSignature Date

Reviewed by: Ann Preston 01-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="5.0 c"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="4/30/2014 10:59:57 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:

From: (616) 380-6670
Sample Receiving
ALS Laboratory Group
3352 128th Avenue
Holland, MI 49424

Origin ID: GRRRA



Ship Date: 29APR14
Address: 588 US
CAD: 22068464MINET3400
Dims: 24 X 15 X 15 IN

Delivery Address Bar Code



Ref # 042014-1
Invoice #
PO # Parachute
Dept #

SHIP TO: (616) 389-6670
sample receiving
ALS Laboratory Group
3352 128TH AVE
HOLLAND, MI 49424

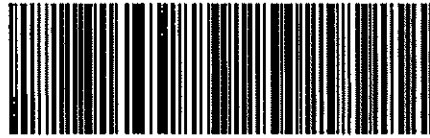
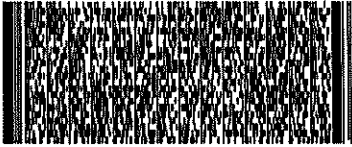
BILL REMINDER

WED - 30 APR 10:30A
PRIORITY OVERNIGHT

TRK# 7987 0088 4412
C91

49424
MI US
GRR

68 GRRRA



3226AF1009F220

After printing this label:

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13-May-2014

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

Re: **Caerus Garden Gulch 1 PBV Removal 5.6.14**

Work Order: **1405405**

Dear Mark,

ALS Environmental received 3 samples on 08-May-2014 02:45 PM 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 29.

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 Environmental logo icon consisting of a stylized green leaf or flame shape.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 PBV Removal 5.6.14
Work Order: 1405405

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>
1405405-01	Footprint South, 37'	Soil		5/6/2014 09:50	5/8/2014 14:45	<input type="checkbox"/>
1405405-02	South Wall, 18'	Soil		5/6/2014 11:37	5/8/2014 14:45	<input type="checkbox"/>
1405405-03	East Wall, 18'	Soil		5/7/2014 11:05	5/8/2014 14:45	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 PBV Removal 5.6.14
Work Order: 1405405

Case Narrative

Batch 58419 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 58425 sample East Wall, 18' MS/MSD recoveries for Hexavalent Chromium were below the control limit. The corresponding result in the parent sample may be biased low for Hexavalent 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: 13-May-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 PBV Removal 5.6.14
Sample ID: Footprint South, 37'
Collection Date: 5/6/2014 09:50 AM

Work Order: 1405405
Lab ID: 1405405-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 5/8/14	Analyst: IT
DRO (C10-C28)	8.2		4.8	mg/Kg-dry	1	5/9/2014 11:46 AM
<i>Surr: 4-Terphenyl-d14</i>	<i>80.2</i>		<i>39-133</i>	<i>%REC</i>	1	5/9/2014 11:46 AM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 5/8/14	Analyst: IT
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	5/8/2014 06:25 PM
<i>Surr: Toluene-d8</i>	<i>106</i>		<i>50-150</i>	<i>%REC</i>	1	5/8/2014 06:25 PM
MERCURY BY CVAA			SW7471		Prep: SW7471 / 5/12/14	Analyst: LR
Mercury	0.033		0.018	mg/Kg-dry	1	5/12/2014 01:46 PM
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 5/8/14	Analyst: ML
Arsenic	7.2		2.3	mg/Kg-dry	5	5/10/2014 01:35 AM
Barium	140		2.3	mg/Kg-dry	5	5/10/2014 01:35 AM
Cadmium	ND		0.91	mg/Kg-dry	5	5/10/2014 01:35 AM
Chromium	9.1		2.3	mg/Kg-dry	5	5/10/2014 01:35 AM
Copper	18		2.3	mg/Kg-dry	5	5/10/2014 01:35 AM
Lead	13		2.3	mg/Kg-dry	5	5/10/2014 01:35 AM
Nickel	18		2.3	mg/Kg-dry	5	5/10/2014 01:35 AM
Selenium	ND		2.3	mg/Kg-dry	5	5/10/2014 01:35 AM
Silver	ND		2.3	mg/Kg-dry	5	5/10/2014 01:35 AM
Zinc	65		4.6	mg/Kg-dry	5	5/10/2014 01:35 AM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep: USDA Method 20B / 5/11/14	Analyst: RH
Calcium	ND		10	mg/L	20	5/12/2014 04:42 PM
Magnesium	4.2		4.0	mg/L	20	5/12/2014 04:42 PM
Sodium	520		4.0	mg/L	20	5/12/2014 04:42 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 5/11/14	Analyst: RH
Sodium Adsorption Ratio	37		0.010	none	1	5/12/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3541 / 5/8/14	Analyst: HL
Acenaphthene	ND		7.6	µg/Kg-dry	1	5/9/2014 01:18 PM
Acenaphthylene	ND		7.6	µg/Kg-dry	1	5/9/2014 01:18 PM
Anthracene	ND		7.6	µg/Kg-dry	1	5/9/2014 01:18 PM
Benzo(a)anthracene	ND		7.6	µg/Kg-dry	1	5/9/2014 01:18 PM
Benzo(a)pyrene	ND		7.6	µg/Kg-dry	1	5/9/2014 01:18 PM
Benzo(b)fluoranthene	ND		7.6	µg/Kg-dry	1	5/9/2014 01:18 PM
Benzo(g,h,i)perylene	ND		7.6	µg/Kg-dry	1	5/9/2014 01:18 PM
Benzo(k)fluoranthene	ND		7.6	µg/Kg-dry	1	5/9/2014 01:18 PM
Chrysene	ND		7.6	µg/Kg-dry	1	5/9/2014 01:18 PM

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

ALS Group USA, Corp

Date: 13-May-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 PBV Removal 5.6.14
Sample ID: Footprint South, 37'
Collection Date: 5/6/2014 09:50 AM

Work Order: 1405405
Lab ID: 1405405-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.6	µg/Kg-dry	1	5/9/2014 01:18 PM
Fluoranthene	ND		7.6	µg/Kg-dry	1	5/9/2014 01:18 PM
Fluorene	ND		7.6	µg/Kg-dry	1	5/9/2014 01:18 PM
Indeno(1,2,3-cd)pyrene	ND		7.6	µg/Kg-dry	1	5/9/2014 01:18 PM
Naphthalene	ND		7.6	µg/Kg-dry	1	5/9/2014 01:18 PM
Pyrene	ND		7.6	µg/Kg-dry	1	5/9/2014 01:18 PM
Surr: 2-Fluorobiphenyl	79.8		12-100	%REC	1	5/9/2014 01:18 PM
Surr: 4-Terphenyl-d14	116		25-137	%REC	1	5/9/2014 01:18 PM
Surr: Nitrobenzene-d5	67.1		37-107	%REC	1	5/9/2014 01:18 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 5/8/14	Analyst: AK
Benzene	51		35	µg/Kg-dry	1	5/8/2014 10:54 PM
Ethylbenzene	870		35	µg/Kg-dry	1	5/8/2014 10:54 PM
m,p-Xylene	ND		71	µg/Kg-dry	1	5/8/2014 10:54 PM
o-Xylene	ND		35	µg/Kg-dry	1	5/8/2014 10:54 PM
Toluene	ND		35	µg/Kg-dry	1	5/8/2014 10:54 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	5/8/2014 10:54 PM
Surr: 1,2-Dichloroethane-d4	102		70-130	%REC	1	5/8/2014 10:54 PM
Surr: 4-Bromofluorobenzene	106		70-130	%REC	1	5/8/2014 10:54 PM
Surr: Dibromofluoromethane	97.6		70-130	%REC	1	5/8/2014 10:54 PM
Surr: Toluene-d8	100		70-130	%REC	1	5/8/2014 10:54 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 5/11/14	Analyst: JB
Electrical Conductivity @ Saturation	2.4		0.10	mmhos/cm @25	20	5/12/2014 09:00 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	8.9		0.59	mg/Kg-dry	1	5/13/2014 08:00 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 5/9/14	Analyst: JJ
Chromium, Hexavalent	ND		0.58	mg/Kg-dry	1	5/9/2014 08:30 AM
MOISTURE			A2540 G			Analyst: AT
Moisture	15		0.050	% of sample	1	5/8/2014 01:17 PM
PH			SW9045D		Prep: EXTRACT / 5/9/14	Analyst: AT
pH	8.4			s.u.	1	5/9/2014 04:00 PM

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

ALS Group USA, Corp

Date: 13-May-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 PBV Removal 5.6.14
Sample ID: South Wall, 18'
Collection Date: 5/6/2014 11:37 AM

Work Order: 1405405
Lab ID: 1405405-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 5/8/14	Analyst: IT
DRO (C10-C28)	9.3		4.8	mg/Kg-dry	1	5/9/2014 12:17 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>81.2</i>		<i>39-133</i>	<i>%REC</i>	1	5/9/2014 12:17 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 5/8/14	Analyst: IT
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	5/8/2014 06:51 PM
<i>Surr: Toluene-d8</i>	<i>90.2</i>		<i>50-150</i>	<i>%REC</i>	1	5/8/2014 06:51 PM
MERCURY BY CVAA			SW7471		Prep: SW7471 / 5/12/14	Analyst: LR
Mercury	0.027		0.019	mg/Kg-dry	1	5/12/2014 01:48 PM
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 5/8/14	Analyst: ML
Arsenic	8.5		1.9	mg/Kg-dry	5	5/10/2014 01:41 AM
Barium	270		1.9	mg/Kg-dry	5	5/10/2014 01:41 AM
Cadmium	ND		0.75	mg/Kg-dry	5	5/10/2014 01:41 AM
Chromium	9.0		1.9	mg/Kg-dry	5	5/10/2014 01:41 AM
Copper	16		1.9	mg/Kg-dry	5	5/10/2014 01:41 AM
Lead	11		1.9	mg/Kg-dry	5	5/10/2014 01:41 AM
Nickel	16		1.9	mg/Kg-dry	5	5/10/2014 01:41 AM
Selenium	2.1		1.9	mg/Kg-dry	5	5/10/2014 01:41 AM
Silver	ND		1.9	mg/Kg-dry	5	5/10/2014 01:41 AM
Zinc	59		3.8	mg/Kg-dry	5	5/10/2014 01:41 AM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep: USDA Method 20B / 5/11/14	Analyst: RH
Calcium	400		10	mg/L	20	5/12/2014 04:48 PM
Magnesium	220		4.0	mg/L	20	5/12/2014 04:48 PM
Sodium	1,300		4.0	mg/L	20	5/12/2014 04:48 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 5/11/14	Analyst: RH
Sodium Adsorption Ratio	13		0.010	none	1	5/12/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3541 / 5/8/14	Analyst: HL
Acenaphthene	ND		7.8	µg/Kg-dry	1	5/9/2014 01:40 PM
Acenaphthylene	ND		7.8	µg/Kg-dry	1	5/9/2014 01:40 PM
Anthracene	ND		7.8	µg/Kg-dry	1	5/9/2014 01:40 PM
Benzo(a)anthracene	ND		7.8	µg/Kg-dry	1	5/9/2014 01:40 PM
Benzo(a)pyrene	ND		7.8	µg/Kg-dry	1	5/9/2014 01:40 PM
Benzo(b)fluoranthene	ND		7.8	µg/Kg-dry	1	5/9/2014 01:40 PM
Benzo(g,h,i)perylene	ND		7.8	µg/Kg-dry	1	5/9/2014 01:40 PM
Benzo(k)fluoranthene	ND		7.8	µg/Kg-dry	1	5/9/2014 01:40 PM
Chrysene	ND		7.8	µg/Kg-dry	1	5/9/2014 01:40 PM

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

ALS Group USA, Corp

Date: 13-May-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 PBV Removal 5.6.14
Sample ID: South Wall, 18'
Collection Date: 5/6/2014 11:37 AM

Work Order: 1405405
Lab ID: 1405405-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.8	µg/Kg-dry	1	5/9/2014 01:40 PM
Fluoranthene	ND		7.8	µg/Kg-dry	1	5/9/2014 01:40 PM
Fluorene	ND		7.8	µg/Kg-dry	1	5/9/2014 01:40 PM
Indeno(1,2,3-cd)pyrene	ND		7.8	µg/Kg-dry	1	5/9/2014 01:40 PM
Naphthalene	ND		7.8	µg/Kg-dry	1	5/9/2014 01:40 PM
Pyrene	ND		7.8	µg/Kg-dry	1	5/9/2014 01:40 PM
Surr: 2-Fluorobiphenyl	79.1		12-100	%REC	1	5/9/2014 01:40 PM
Surr: 4-Terphenyl-d14	119		25-137	%REC	1	5/9/2014 01:40 PM
Surr: Nitrobenzene-d5	64.1		37-107	%REC	1	5/9/2014 01:40 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 5/8/14	Analyst: AK
Benzene	ND		35	µg/Kg-dry	1	5/8/2014 11:19 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	5/8/2014 11:19 PM
m,p-Xylene	ND		70	µg/Kg-dry	1	5/8/2014 11:19 PM
o-Xylene	ND		35	µg/Kg-dry	1	5/8/2014 11:19 PM
Toluene	ND		35	µg/Kg-dry	1	5/8/2014 11:19 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	5/8/2014 11:19 PM
Surr: 1,2-Dichloroethane-d4	104		70-130	%REC	1	5/8/2014 11:19 PM
Surr: 4-Bromofluorobenzene	106		70-130	%REC	1	5/8/2014 11:19 PM
Surr: Dibromofluoromethane	96.4		70-130	%REC	1	5/8/2014 11:19 PM
Surr: Toluene-d8	100		70-130	%REC	1	5/8/2014 11:19 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 5/11/14	Analyst: JB
Electrical Conductivity @ Saturation	10		0.050	mmhos/cm @25	10	5/12/2014 09:00 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	8.8		0.59	mg/Kg-dry	1	5/13/2014 08:00 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 5/9/14	Analyst: JJ
Chromium, Hexavalent	ND		0.58	mg/Kg-dry	1	5/9/2014 08:30 AM
MOISTURE			A2540 G			Analyst: AT
Moisture	15		0.050	% of sample	1	5/8/2014 01:17 PM
PH			SW9045D		Prep: EXTRACT / 5/9/14	Analyst: AT
pH	8.0			s.u.	1	5/9/2014 04:00 PM

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

ALS Group USA, Corp

Date: 13-May-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 PBV Removal 5.6.14
Sample ID: East Wall, 18'
Collection Date: 5/7/2014 11:05 AM

Work Order: 1405405
Lab ID: 1405405-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	ND		4.8	mg/Kg-dry	1	5/9/2014 11:16 AM
Surr: 4-Terphenyl-d14	77.7		39-133	%REC	1	5/9/2014 11:16 AM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	5/8/2014 07:17 PM
Surr: Toluene-d8	107		50-150	%REC	1	5/8/2014 07:17 PM
MERCURY BY CVAA						
Mercury	0.023		0.018	mg/Kg-dry	1	5/12/2014 01:51 PM
METALS BY ICP-MS						
Arsenic	10		2.2	mg/Kg-dry	5	5/10/2014 01:47 AM
Barium	280		2.2	mg/Kg-dry	5	5/10/2014 01:47 AM
Cadmium	ND		0.86	mg/Kg-dry	5	5/10/2014 01:47 AM
Chromium	8.4		2.2	mg/Kg-dry	5	5/10/2014 01:47 AM
Copper	15		2.2	mg/Kg-dry	5	5/10/2014 01:47 AM
Lead	11		2.2	mg/Kg-dry	5	5/10/2014 01:47 AM
Nickel	16		2.2	mg/Kg-dry	5	5/10/2014 01:47 AM
Selenium	ND		2.2	mg/Kg-dry	5	5/10/2014 01:47 AM
Silver	ND		2.2	mg/Kg-dry	5	5/10/2014 01:47 AM
Zinc	54		4.3	mg/Kg-dry	5	5/10/2014 01:47 AM
SOLUBLE CATIONS FOR SAR						
Calcium	460		10	mg/L	20	5/12/2014 04:55 PM
Magnesium	380		4.0	mg/L	20	5/12/2014 04:55 PM
Sodium	480		4.0	mg/L	20	5/12/2014 04:55 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	4.1		0.010	none	1	5/12/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		7.6	µg/Kg-dry	1	5/9/2014 02:02 PM
Acenaphthylene	ND		7.6	µg/Kg-dry	1	5/9/2014 02:02 PM
Anthracene	ND		7.6	µg/Kg-dry	1	5/9/2014 02:02 PM
Benzo(a)anthracene	ND		7.6	µg/Kg-dry	1	5/9/2014 02:02 PM
Benzo(a)pyrene	ND		7.6	µg/Kg-dry	1	5/9/2014 02:02 PM
Benzo(b)fluoranthene	ND		7.6	µg/Kg-dry	1	5/9/2014 02:02 PM
Benzo(g,h,i)perylene	ND		7.6	µg/Kg-dry	1	5/9/2014 02:02 PM
Benzo(k)fluoranthene	ND		7.6	µg/Kg-dry	1	5/9/2014 02:02 PM
Chrysene	ND		7.6	µg/Kg-dry	1	5/9/2014 02:02 PM

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

ALS Group USA, Corp

Date: 13-May-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 PBV Removal 5.6.14
Sample ID: East Wall, 18'
Collection Date: 5/7/2014 11:05 AM

Work Order: 1405405
Lab ID: 1405405-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.6	µg/Kg-dry	1	5/9/2014 02:02 PM
Fluoranthene	ND		7.6	µg/Kg-dry	1	5/9/2014 02:02 PM
Fluorene	ND		7.6	µg/Kg-dry	1	5/9/2014 02:02 PM
Indeno(1,2,3-cd)pyrene	ND		7.6	µg/Kg-dry	1	5/9/2014 02:02 PM
Naphthalene	ND		7.6	µg/Kg-dry	1	5/9/2014 02:02 PM
Pyrene	ND		7.6	µg/Kg-dry	1	5/9/2014 02:02 PM
Surr: 2-Fluorobiphenyl	69.4		12-100	%REC	1	5/9/2014 02:02 PM
Surr: 4-Terphenyl-d14	109		25-137	%REC	1	5/9/2014 02:02 PM
Surr: Nitrobenzene-d5	59.5		37-107	%REC	1	5/9/2014 02:02 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 5/8/14	Analyst: AK
Benzene	ND		35	µg/Kg-dry	1	5/8/2014 11:44 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	5/8/2014 11:44 PM
m,p-Xylene	ND		70	µg/Kg-dry	1	5/8/2014 11:44 PM
o-Xylene	ND		35	µg/Kg-dry	1	5/8/2014 11:44 PM
Toluene	ND		35	µg/Kg-dry	1	5/8/2014 11:44 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	5/8/2014 11:44 PM
Surr: 1,2-Dichloroethane-d4	103		70-130	%REC	1	5/8/2014 11:44 PM
Surr: 4-Bromofluorobenzene	106		70-130	%REC	1	5/8/2014 11:44 PM
Surr: Dibromofluoromethane	97.6		70-130	%REC	1	5/8/2014 11:44 PM
Surr: Toluene-d8	98.9		70-130	%REC	1	5/8/2014 11:44 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 5/11/14	Analyst: JB
Electrical Conductivity @ Saturation	7.5		0.050	mmhos/cm @25	10	5/12/2014 09:00 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	7.9		0.59	mg/Kg-dry	1	5/13/2014 08:00 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 5/9/14	Analyst: JJ
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	5/9/2014 08:30 AM
MOISTURE			A2540 G			Analyst: AT
Moisture	15		0.050	% of sample	1	5/8/2014 03:33 PM
PH			SW9045D		Prep: EXTRACT / 5/9/14	Analyst: AT
pH	8.0			s.u.	1	5/9/2014 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: 1405405

Project: Caerus Garden Gulch 1 PBV Removal 5.6.14

Batch ID: 58414

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-58414-58414				Units: mg/Kg		Analysis Date: 5/9/2014 09:16 AM		
Client ID:		Run ID: GC8_140509A				SeqNo: 2753260		Prep Date: 5/8/2014		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>	1.46	0	1.667	0	87.6	39-133	0			

LCS		Sample ID: DLCSS1-58414-58414				Units: mg/Kg		Analysis Date: 5/9/2014 09:46 AM		
Client ID:		Run ID: GC8_140509A				SeqNo: 2753261		Prep Date: 5/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	134.2	4.2	166.7	0	80.5	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.341	0	1.667	0	80.5	39-133	0			

MS		Sample ID: 1405405-03B MS				Units: mg/Kg		Analysis Date: 5/9/2014 10:16 AM		
Client ID: East Wall, 18'		Run ID: GC8_140509A				SeqNo: 2753262		Prep Date: 5/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	269.9	8.2	328.4	0	82.2	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	2.601	0	3.284	0	79.2	39-133	0			

MSD		Sample ID: 1405405-03B MSD				Units: mg/Kg		Analysis Date: 5/9/2014 10:46 AM		
Client ID: East Wall, 18'		Run ID: GC8_140509A				SeqNo: 2753263		Prep Date: 5/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	263.5	8.2	329.9	0	79.9	48-110	269.9	2.4	30	
<i>Surr: 4-Terphenyl-d14</i>	2.661	0	3.299	0	80.7	39-133	2.601	2.28	30	

The following samples were analyzed in this batch: | 1405405-01B | 1405405-02B | 1405405-03B |

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

Client: HRL Compliance Solutions, Inc
Work Order: 1405405
Project: Caerus Garden Gulch 1 PBV Removal 5.6.14

QC BATCH REPORT

Batch ID: **58397** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-58397-58397				Units: µg/Kg		Analysis Date: 5/8/2014 05:59 PM		
Client ID:		Run ID: GC9_140508A				SeqNo: 2751686		Prep Date: 5/8/2014		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>	4929	0	5000	0	98.6	50-150	0			

LCS		Sample ID: LCS-58397-58397				Units: µg/Kg		Analysis Date: 5/8/2014 05:33 PM		
Client ID:		Run ID: GC9_140508A				SeqNo: 2751685		Prep Date: 5/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	462200	2,500	500000	0	92.4	70-130	0			
<i>Surr: Toluene-d8</i>	4604	0	5000	0	92.1	50-150	0			

MS		Sample ID: 1405405-01A MS				Units: µg/Kg		Analysis Date: 5/8/2014 08:38 PM		
Client ID: Footprint South, 37'		Run ID: GC9_140508A				SeqNo: 2751691		Prep Date: 5/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	487900	2,500	500000	0	97.6	70-130	0			
<i>Surr: Toluene-d8</i>	4357	0	5000	0	87.1	50-150	0			

MSD		Sample ID: 1405405-01A MSD				Units: µg/Kg		Analysis Date: 5/8/2014 09:04 PM		
Client ID: Footprint South, 37'		Run ID: GC9_140508A				SeqNo: 2751692		Prep Date: 5/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	488500	2,500	500000	0	97.7	70-130	487900	0.115	30	
<i>Surr: Toluene-d8</i>	4274	0	5000	0	85.5	50-150	4357	1.91	30	

The following samples were analyzed in this batch:

1405405-01A	1405405-02A	1405405-03A
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Client: HRL Compliance Solutions, Inc
 Work Order: 1405405
 Project: Caerus Garden Gulch 1 PBV Removal 5.6.14

QC BATCH REPORT

Batch ID: **58476** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-58476-58476				Units: mg/Kg		Analysis Date: 5/12/2014 01:41 PM		
Client ID:		Run ID: HG1_140512A				SeqNo: 2756262		Prep Date: 5/12/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.005833	0.020								J

LCS		Sample ID: LCS-58476-58476				Units: mg/Kg		Analysis Date: 5/12/2014 01:44 PM		
Client ID:		Run ID: HG1_140512A				SeqNo: 2756263		Prep Date: 5/12/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1844	0.020	0.1665		0	111	80-120	0		

MS		Sample ID: 1405405-03BMS				Units: mg/Kg		Analysis Date: 5/12/2014 01:53 PM		
Client ID: East Wall, 18'		Run ID: HG1_140512A				SeqNo: 2756269		Prep Date: 5/12/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1489	0.015	0.1235	0.01938	105	75-125		0		

MSD		Sample ID: 1405405-03BMSD				Units: mg/Kg		Analysis Date: 5/12/2014 01:55 PM		
Client ID: East Wall, 18'		Run ID: HG1_140512A				SeqNo: 2756271		Prep Date: 5/12/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1473	0.015	0.1276	0.01938	100	75-125	0.1489	1.14	35	

The following samples were analyzed in this batch: 1405405-01B 1405405-02B 1405405-03B

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1405405
 Project: Caerus Garden Gulch 1 PBV Removal 5.6.14

QC BATCH REPORT

Batch ID: **58419** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-58419-58419				Units: mg/Kg		Analysis Date: 5/9/2014 10:06 PM		
Client ID:		Run ID: ICPMS1_140509A			SeqNo: 2754296		Prep Date: 5/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	0.023	0.25								J
Cadmium	0.001815	0.10								J
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	0.003036	0.25								J
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS		Sample ID: LCS-58419-58419				Units: mg/Kg		Analysis Date: 5/9/2014 10:12 PM		
Client ID:		Run ID: ICPMS1_140509A			SeqNo: 2754297		Prep Date: 5/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.384	0.25	5	0	87.7	80-120	0			
Barium	4.69	0.25	5	0	93.8	80-120	0			
Cadmium	4.494	0.10	5	0	89.9	80-120	0			
Chromium	4.948	0.25	5	0	99	80-120	0			
Copper	4.846	0.25	5	0	96.9	80-120	0			
Lead	4.46	0.25	5	0	89.2	80-120	0			
Nickel	4.934	0.25	5	0	98.7	80-120	0			
Selenium	4.326	0.25	5	0	86.5	80-120	0			
Silver	4.848	0.25	5	0	97	80-120	0			
Zinc	4.464	0.50	5	0	89.3	80-120	0			

MS		Sample ID: 1405286-04BMS				Units: mg/Kg		Analysis Date: 5/9/2014 10:24 PM		
Client ID:		Run ID: ICPMS1_140509A			SeqNo: 2754299		Prep Date: 5/8/2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	14.4	2.0	7.8	6.729	98.4	75-125	0			
Barium	78.55	2.0	7.8	66.82	150	75-125	0			SO
Cadmium	7.789	0.78	7.8	0.2562	96.6	75-125	0			
Chromium	24.07	2.0	7.8	13.84	131	75-125	0			S
Copper	26.84	2.0	7.8	19.17	98.3	75-125	0			
Lead	17.88	2.0	7.8	9.457	108	75-125	0			
Nickel	34.38	2.0	7.8	25.45	114	75-125	0			
Selenium	8.354	2.0	7.8	1.828	83.7	75-125	0			
Silver	7.211	2.0	7.8	0.07771	91.5	75-125	0			
Zinc	60.06	3.9	7.8	65.39	-68.3	75-125	0			SO

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

Client: HRL Compliance Solutions, Inc
Work Order: 1405405
Project: Caerus Garden Gulch 1 PBV Removal 5.6.14

QC BATCH REPORT

Batch ID: **58419** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1405286-04BMSD				Units: mg/Kg		Analysis Date: 5/9/2014 10:30 PM			
Client ID:		Run ID: ICPMS1_140509A			SeqNo: 2754300		Prep Date: 5/8/2014		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	25.47	2.0	7.874	6.729	238	75-125	14.4	55.5	25	SR	
Barium	65.47	2.0	7.874	66.82	-17.1	75-125	78.55	18.2	25	SO	
Cadmium	7.661	0.79	7.874	0.2562	94	75-125	7.789	1.65	25		
Chromium	24.05	2.0	7.874	13.84	130	75-125	24.07	0.0693	25	S	
Copper	27.99	2.0	7.874	19.17	112	75-125	26.84	4.2	25		
Lead	16.77	2.0	7.874	9.457	92.8	75-125	17.88	6.43	25		
Nickel	32.07	2.0	7.874	25.45	84	75-125	34.38	6.96	25		
Selenium	8.803	2.0	7.874	1.828	88.6	75-125	8.354	5.23	25		
Silver	7.138	2.0	7.874	0.07771	89.7	75-125	7.211	1.03	25		
Zinc	57.2	3.9	7.874	65.39	-104	75-125	60.06	4.87	25	SO	

The following samples were analyzed in this batch: | 1405405-01B 1405405-02B 1405405-03B |

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

Client: HRL Compliance Solutions, Inc
Work Order: 1405405
Project: Caerus Garden Gulch 1 PBV Removal 5.6.14

QC BATCH REPORT

Batch ID: **58428** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 1405436-01CDUP				Units: mg/L		Analysis Date: 5/12/2014 05:36 PM		
Client ID:		Run ID: ICPMS2_140512A			SeqNo: 2756829		Prep Date: 5/11/2014		DF: 20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	8.558	10	0	0	0	0-0	9.802	0		J
Magnesium	11.67	4.0	0	0	0	0-0	12	2.82		
Sodium	575.6	4.0	0	0	0	0-0	570.4	0.908		

DUP		Sample ID: 1405436-01CDUP				Units: none		Analysis Date: 5/12/2014		
Client ID:		Run ID: SAR_140512A			SeqNo: 2757592		Prep Date: 5/11/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	30.06	0.010	0	0	0		28.87	4.03	50	

The following samples were analyzed in this batch: | 1405405-01C 1405405-02C 1405405-03C |

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1405405
 Project: Caerus Garden Gulch 1 PBV Removal 5.6.14

QC BATCH REPORT

Batch ID: **58396** Instrument ID **SVMS7** Method: **SW8270**

MBLK		Sample ID: SBLKS1-58396-58396				Units: µg/Kg		Analysis Date: 5/9/2014 12:23 PM		
Client ID:		Run ID: SVMS7_140509A				SeqNo: 2753270		Prep Date: 5/8/2014		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>	1264	0	1667	0	75.9	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1947	0	1667	0	117	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1078	0	1667	0	64.7	37-107	0			

LCS		Sample ID: SLCSS1-58396-58396				Units: µg/Kg		Analysis Date: 5/9/2014 12:02 PM		
Client ID:		Run ID: SVMS7_140509A				SeqNo: 2753269		Prep Date: 5/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	429.3	6.7	666.7	0	64.4	45-110	0			
Acenaphthylene	476.7	6.7	666.7	0	71.5	45-105	0			
Anthracene	515.3	6.7	666.7	0	77.3	55-105	0			
Benzo(a)anthracene	587.7	6.7	666.7	0	88.1	50-110	0			
Benzo(a)pyrene	561.7	6.7	666.7	0	84.2	50-110	0			
Benzo(b)fluoranthene	585.7	6.7	666.7	0	87.8	45-115	0			
Benzo(g,h,i)perylene	543.7	6.7	666.7	0	81.5	40-125	0			
Benzo(k)fluoranthene	614	6.7	666.7	0	92.1	45-115	0			
Chrysene	587.3	6.7	666.7	0	88.1	55-110	0			
Dibenzo(a,h)anthracene	524.7	6.7	666.7	0	78.7	40-125	0			
Fluoranthene	522	6.7	666.7	0	78.3	55-115	0			
Fluorene	417	6.7	666.7	0	62.5	50-110	0			
Indeno(1,2,3-cd)pyrene	574.7	6.7	666.7	0	86.2	40-120	0			
Naphthalene	440.7	6.7	666.7	0	66.1	40-105	0			
Pyrene	683	6.7	666.7	0	102	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1205	0	1667	0	72.3	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	2106	0	1667	0	126	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1164	0	1667	0	69.9	37-107	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1405405
 Project: Caerus Garden Gulch 1 PBV Removal 5.6.14

QC BATCH REPORT

Batch ID: **58396** Instrument ID **SVMS7** Method: **SW8270**

MS				Sample ID: 1405286-02B MS			Units: µg/Kg		Analysis Date: 5/9/2014 10:29 PM		
Client ID:				Run ID: SVMS7_140509A			SeqNo: 2756064		Prep Date: 5/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	717.1	13	1260	0	56.9	45-110	0				
Acenaphthylene	957.2	13	1260	0	75.9	45-105	0				
Anthracene	968.5	13	1260	0	76.8	55-105	0				
Benzo(a)anthracene	1100	13	1260	0	87.2	50-110	0				
Benzo(a)pyrene	1069	13	1260	0	84.8	50-110	0				
Benzo(b)fluoranthene	1045	13	1260	0	82.9	45-115	0				
Benzo(g,h,i)perylene	1129	13	1260	0	89.5	40-125	0				
Benzo(k)fluoranthene	1121	13	1260	0	88.9	45-115	0				
Chrysene	1082	13	1260	0	85.8	55-110	0				
Dibenzo(a,h)anthracene	1164	13	1260	0	92.4	40-125	0				
Fluoranthene	1057	13	1260	0	83.8	55-115	0				
Fluorene	888.5	13	1260	0	70.5	50-110	0				
Indeno(1,2,3-cd)pyrene	1229	13	1260	0	97.5	40-120	0				
Naphthalene	951.5	13	1260	0	75.5	40-105	0				
Pyrene	1146	13	1260	0	90.9	45-125	0				
Surr: 2-Fluorobiphenyl	2655	0	3151	0	84.3	12-100	0				
Surr: 4-Terphenyl-d14	3680	0	3151	0	117	25-137	0				
Surr: Nitrobenzene-d5	3233	0	3151	0	103	37-107	0				

MSD				Sample ID: 1405286-02B MSD			Units: µg/Kg		Analysis Date: 5/9/2014 10:50 PM		
Client ID:				Run ID: SVMS7_140509A			SeqNo: 2756066		Prep Date: 5/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	814.9	13	1326	0	61.4	45-110	717.1	12.8	30		
Acenaphthylene	935	13	1326	0	70.5	45-105	957.2	2.35	30		
Anthracene	1042	13	1326	0	78.6	55-105	968.5	7.35	30		
Benzo(a)anthracene	1182	13	1326	0	89.1	50-110	1100	7.19	30		
Benzo(a)pyrene	1110	13	1326	0	83.7	50-110	1069	3.79	30		
Benzo(b)fluoranthene	1129	13	1326	0	85.1	45-115	1045	7.71	30		
Benzo(g,h,i)perylene	1209	13	1326	0	91.1	40-125	1129	6.87	30		
Benzo(k)fluoranthene	1134	13	1326	0	85.5	45-115	1121	1.14	30		
Chrysene	1154	13	1326	0	87	55-110	1082	6.49	30		
Dibenzo(a,h)anthracene	1153	13	1326	0	86.9	40-125	1164	0.98	30		
Fluoranthene	1013	13	1326	0	76.3	55-115	1057	4.27	30		
Fluorene	938.3	13	1326	0	70.7	50-110	888.5	5.45	30		
Indeno(1,2,3-cd)pyrene	1276	13	1326	0	96.2	40-120	1229	3.76	30		
Naphthalene	850.1	13	1326	0	64.1	40-105	951.5	11.3	30		
Pyrene	1261	13	1326	0	95	45-125	1146	9.5	30		
Surr: 2-Fluorobiphenyl	2697	0	3315	0	81.3	12-100	2655	1.55	40		
Surr: 4-Terphenyl-d14	3973	0	3315	0	120	25-137	3680	7.67	40		
Surr: Nitrobenzene-d5	2848	0	3315	0	85.9	37-107	3233	12.7	40		

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

Client: HRL Compliance Solutions, Inc
Work Order: 1405405
Project: Caerus Garden Gulch 1 PBV Removal 5.6.14

QC BATCH REPORT

Batch ID: **58396** Instrument ID **SVMS7** Method: **SW8270**

The following samples were analyzed in this batch:

1405405-01B	1405405-02B	1405405-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
 Work Order: 1405405
 Project: Caerus Garden Gulch 1 PBV Removal 5.6.14

QC BATCH REPORT

Batch ID: **58386** Instrument ID **VMS5** Method: **SW8260B**

MBLK		Sample ID: MBLK-58386-58386				Units: µg/Kg		Analysis Date: 5/8/2014 11:43 AM		
Client ID:		Run ID: VMS5_140508A			SeqNo: 2751304		Prep Date: 5/8/2014		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>1050</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>979.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>1003</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>1012</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			

LCS		Sample ID: LCS-58386-58386				Units: µg/Kg		Analysis Date: 5/8/2014 10:26 AM		
Client ID:		Run ID: VMS5_140508A			SeqNo: 2751303		Prep Date: 5/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1020	30	1000	0	102	75-125	0			
Ethylbenzene	1032	30	1000	0	103	75-125	0			
m,p-Xylene	2070	60	2000	0	104	80-125	0			
o-Xylene	1048	30	1000	0	105	75-125	0			
Toluene	1022	30	1000	0	102	70-125	0			
Xylenes, Total	3118	90	3000	0	104	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1022</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>1000</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</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: Toluene-d8</i>	<i>1006</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			

MS		Sample ID: 1405314-23A MS				Units: µg/Kg		Analysis Date: 5/10/2014 09:36 PM		
Client ID:		Run ID: VMS6_140509B			SeqNo: 2755833		Prep Date: 5/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	962.5	30	1000	0	96.2	75-125	0			
Ethylbenzene	963.5	30	1000	0	96.4	75-125	0			
m,p-Xylene	1926	60	2000	0	96.3	80-125	0			
o-Xylene	979.5	30	1000	0	98	75-125	0			
Toluene	959.5	30	1000	0	96	70-125	0			
Xylenes, Total	2905	90	3000	0	96.8	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>976</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.6</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>997.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.8</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>993</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.3</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>1003</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1405405
Project: Caerus Garden Gulch 1 PBV Removal 5.6.14

QC BATCH REPORT

Batch ID: **58386** Instrument ID **VMS5** Method: **SW8260B**

MSD		Sample ID: 1405314-23A MSD				Units: µg/Kg		Analysis Date: 5/10/2014 10:01 PM		
Client ID:		Run ID: VMS6_140509B			SeqNo: 2755834		Prep Date: 5/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	912.5	30	1000	0	91.2	75-125	962.5	5.33	30	
Ethylbenzene	898.5	30	1000	0	89.8	75-125	963.5	6.98	30	
m,p-Xylene	1808	60	2000	0	90.4	80-125	1926	6.27	30	
o-Xylene	925	30	1000	0	92.5	75-125	979.5	5.72	30	
Toluene	888	30	1000	0	88.8	70-125	959.5	7.74	30	
Xylenes, Total	2734	90	3000	0	91.1	75-125	2905	6.08	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	994.5	0	1000	0	99.4	70-130	976	1.88	30	
<i>Surr: 4-Bromofluorobenzene</i>	1006	0	1000	0	101	70-130	997.5	0.898	30	
<i>Surr: Dibromofluoromethane</i>	1006	0	1000	0	101	70-130	993	1.3	30	
<i>Surr: Toluene-d8</i>	984.5	0	1000	0	98.4	70-130	1003	1.86	30	

The following samples were analyzed in this batch: | 1405405-01A 1405405-02A 1405405-03A |

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1405405
 Project: Caerus Garden Gulch 1 PBV Removal 5.6.14

QC BATCH REPORT

Batch ID: **58425** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-58425-58425				Units: mg/Kg		Analysis Date: 5/9/2014 08:30 AM		
Client ID:		Run ID: WETCHEM_140509A		SeqNo: 2752954		Prep Date: 5/9/2014		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-58425-58425				Units: mg/Kg		Analysis Date: 5/9/2014 08:30 AM		
Client ID:		Run ID: WETCHEM_140509A		SeqNo: 2752955		Prep Date: 5/9/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.922 0.49 1.961 0 98 80-120 0

MS		Sample ID: 1405405-03BMS				Units: mg/Kg		Analysis Date: 5/9/2014 08:30 AM		
Client ID: East Wall, 18'		Run ID: WETCHEM_140509A		SeqNo: 2752959		Prep Date: 5/9/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.556 0.50 2 0.436 56 75-125 0 S

MS		Sample ID: 1405405-03BMSI				Units: mg/Kg		Analysis Date: 5/9/2014 08:30 AM		
Client ID: East Wall, 18'		Run ID: WETCHEM_140509A		SeqNo: 2752961		Prep Date: 5/9/2014		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1314 50 1294 0.436 101 75-125 0

MSD		Sample ID: 1405405-03BMSD				Units: mg/Kg		Analysis Date: 5/9/2014 08:30 AM		
Client ID: East Wall, 18'		Run ID: WETCHEM_140509A		SeqNo: 2752960		Prep Date: 5/9/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.504 0.50 2 0.436 53.4 75-125 1.504 0 20 S

The following samples were analyzed in this batch:

1405405-01B	1405405-02B	1405405-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1405405
Project: Caerus Garden Gulch 1 PBV Removal 5.6.14

QC BATCH REPORT

Batch ID: **58428** Instrument ID **WETCHEM** Method: **USDA H60 Method**

Dup	Sample ID: 1405436-01C DUP					Units: mmhos/cm @25°C	Analysis Date: 5/12/2014 09:00 AM			
Client ID:	Run ID: WETCHEM_140512B			SeqNo: 2754793		Prep Date: 5/11/2014		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	3.23	0.050	0	0	0		3.02	6.72	50	

The following samples were analyzed in this batch:

1405405-01C	1405405-02C	1405405-03C
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1405405
Project: Caerus Garden Gulch 1 PBV Removal 5.6.14

QC BATCH REPORT

Batch ID: **58460** Instrument ID **WETCHEM** Method: **SW9045D**

LCS	Sample ID: LCS-58460-58460		Units: s.u.		Analysis Date: 5/9/2014 04:00 PM					
Client ID:	Run ID: WETCHEM_140509G		SeqNo: 2753474		Prep Date: 5/9/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.08 0 4 0 102 90-110 0

DUP	Sample ID: 1405320-01A DUP		Units: s.u.		Analysis Date: 5/9/2014 04:00 PM					
Client ID:	Run ID: WETCHEM_140509G		SeqNo: 2753476		Prep Date: 5/9/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 5.39 0 0 0 0 0-0 5.36 0.558 20

DUP	Sample ID: 1405433-01B DUP		Units: s.u.		Analysis Date: 5/9/2014 04:00 PM					
Client ID:	Run ID: WETCHEM_140509G		SeqNo: 2753493		Prep Date: 5/9/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 8.64 0 0 0 0 0-0 8.59 0.58 20

The following samples were analyzed in this batch: 1405405-01B 1405405-02B 1405405-03B

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1405405
 Project: Caerus Garden Gulch 1 PBV Removal 5.6.14

QC BATCH REPORT

Batch ID: **R140448** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R140448				Units: % of sample			Analysis Date: 5/8/2014 01:17 PM		
Client ID:	Run ID: MOIST_140508D				SeqNo: 2752953		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-R140448				Units: % of sample			Analysis Date: 5/8/2014 01:17 PM		
Client ID:	Run ID: MOIST_140508D				SeqNo: 2752952		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: 1405363-02A DUP				Units: % of sample			Analysis Date: 5/8/2014 01:17 PM		
Client ID:	Run ID: MOIST_140508D				SeqNo: 2752925		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 31.2 0.050 0 0 0 0-0 32.13 2.94 20

DUP	Sample ID: 1405366-10B DUP				Units: % of sample			Analysis Date: 5/8/2014 01:17 PM		
Client ID:	Run ID: MOIST_140508D				SeqNo: 2752942		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 15.98 0.050 0 0 0 0-0 15.15 5.33 20

The following samples were analyzed in this batch: 1405405-01B 1405405-02B

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



ALS Laboratory Group

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

Chain-of-Custody

Form 202r8

WORKORDER #	1405405
PAGE	1 of 1
DISPOSAL	BY LAB or Return to Client

PROJECT NAME		SAMPLER		DATE		TURNAROUND		DISPOSAL							
CAERUS GARDEN GULCH 1 PbV REMOVAL		Casey Richardson		5-7-14		24 HR		BY LAB or Return to Client							
PROJECT No.		SITE ID		E-MAIL		E-MAIL		E-MAIL							
				erichardson@hrlcomp.com		ewinters@caerusollandgas.com									
COMPANY NAME		BILL TO COMPANY		ADDRESS		ADDRESS		ADDRESS							
HCSI		Caerus Piceance LLC		2385 F 1/2 Road		120 Railroad Ave. Suite D									
SEND REPORT TO		INVOICE ATTN TO		CITY/STATE/ZIP		CITY/STATE/ZIP		CITY/STATE/ZIP							
MARK MUMBY		Ed Winters		Grand Junction, CO. 81505		Parachute, CO 81635									
PHONE		PHONE		FAX		FAX		FAX							
970-243-3271		970-285-9606		970-243-3280											
E-MAIL		E-MAIL		E-MAIL		E-MAIL		E-MAIL							
crichardson@hrlcomp.com		ewinters@caerusollandgas.com													
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	DRO	GRO	BTEX	TOTAL METALS - LABEL 910-1	SEMI VOLS - PAH	BAR	EC	PH
01	FOOTPRINT SOUTH, 37'	SOIL	5-6-14	950	3	8		X	X	X	X	X	X	X	X
02	SOUTH WALL, 18'		5-6-14	1137	4	8		X	X	X	X	X	X	X	X
03	EAST WALL, 18'		5-7-14	1105	3	8		X	X	X	X	X	X	X	X

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

For metals or anions, please detail analytes below.

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

S.O.C. *[Signature]*

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	<i>[Signature]</i>	Casey Richardson	5-7-14	1405
RECEIVED BY	<i>[Signature]</i>	N.M.	5-7-14	1405
RELINQUISHED BY	<i>[Signature]</i>	N.M.	5-7-14	1600
RECEIVED BY	<i>[Signature]</i>	R. BAK	5/8/14	1445
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **08-May-14 14:45**

Work Order: **1405405**

Received by: **JR**

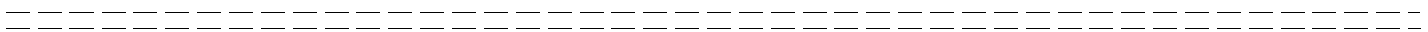
Checklist completed by Joseph Ribar 08-May-14
eSignature Date

Reviewed by: Ann Preston 09-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="5.0c"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="5/8/2014 2:51:59 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: (810) 390-6070
Sample Receiving
ALS Laboratory Group
3352 128th Avenue
Holland, MI 49424

Origin ID: GRRR



Ship Date: 07MAY14
Act/Vol: 32.0 LB
CAD: 22949489NET3490
Dim: 24 X 15 X 15 IN

Delivery Address Bar Code



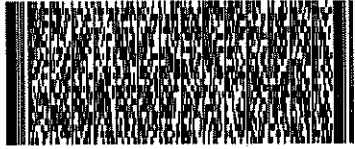
BILL TO: (810) 390-6070
sample receiving
ALS Laboratory Group
3352 128TH AVE
HOLLAND, MI 49424

BILL MEMBER

Ref # 058714-1
Invoice #
PO # Parachute
Dept #

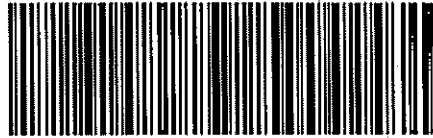
THU - 08 MAY 10:30A
PRIORITY OVERNIGHT

TRAK 7987 8883 2183
6291

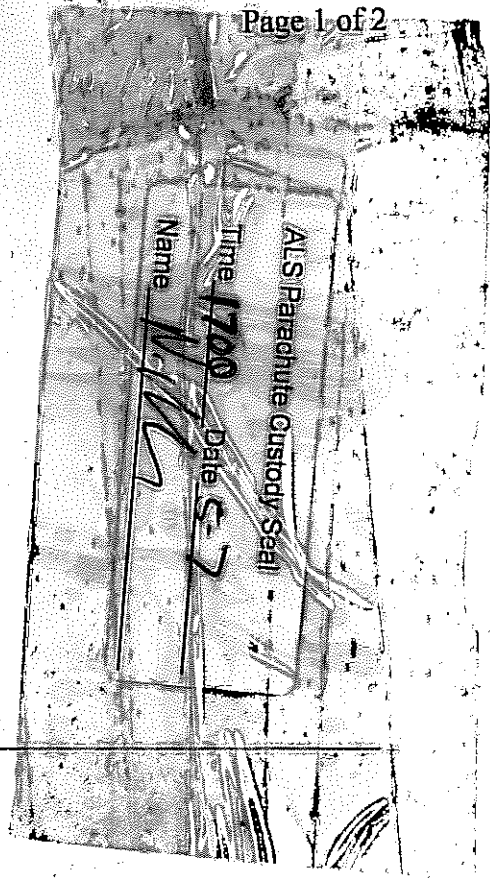


68 GRRR

49424
MI-UN
GRR



52015201720



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

S08



03-Sep-2014

Casey Richardson
HRL Compliance Solutions, Inc
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Caerus Garden Gulch 1 8.25.14**

Work Order: **14081396**

Dear Casey,

ALS Environmental received 2 samples on 27-Aug-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 21.

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 Environmental logo icon consisting of a stylized green leaf or flame shape.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 8.25.14
Work Order: 14081396

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>
14081396-01	West Composite	Soil		8/25/2014 09:45	8/27/2014 09:30	<input type="checkbox"/>
14081396-02	East Composite	Soil		8/25/2014 10:05	8/27/2014 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc

Project: Caerus Garden Gulch 1 8.25.14

Work Order: 14081396

Case Narrative

Batch 62130 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 8.25.14
WorkOrder: 14081396

**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
°F	Degrees Fahrenheit
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
none	

ALS Group USA, Corp

Date: 03-Sep-14

Client: HRL Compliance Solutions, Inc

Project: Caerus Garden Gulch 1 8.25.14

Sample ID: West Composite

Collection Date: 8/25/2014 09:45 AM

Work Order: 14081396

Lab ID: 14081396-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 8/29/14	Analyst: IT
DRO (C10-C28)	540		4.8	mg/Kg-dry	1	9/2/2014 07:37 PM
<i>Surr: 4-Terphenyl-d14</i>	71.5		39-133	%REC	1	9/2/2014 07:37 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 8/29/14	Analyst: IT
GRO (C6-C10)	1,800		2.9	mg/Kg-dry	1	8/30/2014 11:40 AM
<i>Surr: Toluene-d8</i>	133		50-150	%REC	1	8/30/2014 11:40 AM
MERCURY BY CVAA			SW7471		Prep: SW7471 / 8/28/14	Analyst: LR
Mercury	0.015		0.015	mg/Kg-dry	1	8/28/2014 04:30 PM
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 8/27/14	Analyst: ML
Arsenic	7.8		1.9	mg/Kg-dry	5	8/28/2014 02:02 AM
Barium	280		1.9	mg/Kg-dry	5	8/28/2014 02:02 AM
Cadmium	ND		0.75	mg/Kg-dry	5	8/28/2014 02:02 AM
Chromium	8.5		1.9	mg/Kg-dry	5	8/28/2014 02:02 AM
Lead	11		1.9	mg/Kg-dry	5	8/28/2014 02:02 AM
Selenium	2.2		1.9	mg/Kg-dry	5	8/28/2014 02:02 AM
Silver	ND		1.9	mg/Kg-dry	5	8/28/2014 02:02 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/27/14	Analyst: BG
1,1,1-Trichloroethane	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
1,1,2,2-Tetrachloroethane	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
1,1,2-Trichloroethane	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
1,1-Dichloroethane	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
1,1-Dichloroethene	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
1,2-Dichloroethane	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
1,2-Dichloropropane	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
2-Butanone	ND		230	µg/Kg-dry	1	8/31/2014 07:17 PM
2-Hexanone	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
4-Methyl-2-pentanone	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
Acetone	430		120	µg/Kg-dry	1	8/31/2014 07:17 PM
Benzene	550		35	µg/Kg-dry	1	8/31/2014 07:17 PM
Bromodichloromethane	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
Bromoform	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
Bromomethane	ND		88	µg/Kg-dry	1	8/31/2014 07:17 PM
Carbon disulfide	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
Carbon tetrachloride	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
Chlorobenzene	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
Chloroethane	ND		120	µg/Kg-dry	1	8/31/2014 07:17 PM
Chloroform	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
Chloromethane	ND		120	µg/Kg-dry	1	8/31/2014 07:17 PM

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

ALS Group USA, Corp

Date: 03-Sep-14

Client: HRL Compliance Solutions, Inc

Project: Caerus Garden Gulch 1 8.25.14

Sample ID: West Composite

Collection Date: 8/25/2014 09:45 AM

Work Order: 14081396

Lab ID: 14081396-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
cis-1,3-Dichloropropene	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
Dibromochloromethane	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
Ethylbenzene	2,900		35	µg/Kg-dry	1	8/31/2014 07:17 PM
m,p-Xylene	86,000		700	µg/Kg-dry	10	9/2/2014 05:50 PM
Methyl iodide	ND		88	µg/Kg-dry	1	8/31/2014 07:17 PM
Methylene chloride	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
o-Xylene	2,200		35	µg/Kg-dry	1	8/31/2014 07:17 PM
Styrene	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
Tetrachloroethene	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
Toluene	120		35	µg/Kg-dry	1	8/31/2014 07:17 PM
trans-1,2-Dichloroethene	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
trans-1,3-Dichloropropene	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
trans-1,4-Dichloro-2-butene	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
Trichloroethene	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
Vinyl acetate	ND		35	µg/Kg-dry	1	8/31/2014 07:17 PM
Xylenes, Total	89,000		1,100	µg/Kg-dry	10	9/2/2014 05:50 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	95.0		70-130	%REC	1	8/31/2014 07:17 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	95.4		70-130	%REC	10	9/2/2014 05:50 PM
<i>Surr: 4-Bromofluorobenzene</i>	102		70-130	%REC	10	9/2/2014 05:50 PM
<i>Surr: 4-Bromofluorobenzene</i>	96.8		70-130	%REC	1	8/31/2014 07:17 PM
<i>Surr: Dibromofluoromethane</i>	95.7		70-130	%REC	1	8/31/2014 07:17 PM
<i>Surr: Dibromofluoromethane</i>	97.2		70-130	%REC	10	9/2/2014 05:50 PM
<i>Surr: Toluene-d8</i>	118		70-130	%REC	10	9/2/2014 05:50 PM
<i>Surr: Toluene-d8</i>	119		70-130	%REC	1	8/31/2014 07:17 PM
FLASHPOINT, OPEN-CUP			D92			Analyst: RLF
Flashpoint, Open-cup	>200			°F	1	9/2/2014 08:30 AM
PAINT FILTER (FREE LIQUIDS)			SW9095			Analyst: KF
Free Liquids	Pass			none	1	8/28/2014 05:07 PM
MOISTURE			A2540 G			Analyst: JJG
Moisture	15		0.050	% of sample	1	8/29/2014 10:41 AM

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

ALS Group USA, Corp

Date: 03-Sep-14

Client: HRL Compliance Solutions, Inc

Project: Caerus Garden Gulch 1 8.25.14

Sample ID: East Composite

Collection Date: 8/25/2014 10:05 AM

Work Order: 14081396

Lab ID: 14081396-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 8/29/14	Analyst: IT
DRO (C10-C28)	260		4.8	mg/Kg-dry	1	9/2/2014 08:07 PM
<i>Surr: 4-Terphenyl-d14</i>	63.3		39-133	%REC	1	9/2/2014 08:07 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 8/29/14	Analyst: IT
GRO (C6-C10)	630		2.9	mg/Kg-dry	1	8/30/2014 12:05 PM
<i>Surr: Toluene-d8</i>	138		50-150	%REC	1	8/30/2014 12:05 PM
MERCURY BY CVAA			SW7471		Prep: SW7471 / 8/28/14	Analyst: LR
Mercury	0.018		0.017	mg/Kg-dry	1	8/28/2014 04:33 PM
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 8/27/14	Analyst: ML
Arsenic	11		2.0	mg/Kg-dry	5	8/28/2014 02:08 AM
Barium	320		2.0	mg/Kg-dry	5	8/28/2014 02:08 AM
Cadmium	ND		0.80	mg/Kg-dry	5	8/28/2014 02:08 AM
Chromium	12		2.0	mg/Kg-dry	5	8/28/2014 02:08 AM
Lead	11		2.0	mg/Kg-dry	5	8/28/2014 02:08 AM
Selenium	2.3		2.0	mg/Kg-dry	5	8/28/2014 02:08 AM
Silver	ND		2.0	mg/Kg-dry	5	8/28/2014 02:08 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/27/14	Analyst: AK
1,1,1-Trichloroethane	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
1,1,2,2-Tetrachloroethane	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
1,1,2-Trichloroethane	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
1,1-Dichloroethane	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
1,1-Dichloroethene	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
1,2-Dichloroethane	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
1,2-Dichloropropane	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
2-Butanone	ND		230	µg/Kg-dry	1	8/31/2014 04:27 PM
2-Hexanone	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
4-Methyl-2-pentanone	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
Acetone	ND		120	µg/Kg-dry	1	8/31/2014 04:27 PM
Benzene	68		35	µg/Kg-dry	1	8/31/2014 04:27 PM
Bromodichloromethane	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
Bromoform	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
Bromomethane	ND		88	µg/Kg-dry	1	8/31/2014 04:27 PM
Carbon disulfide	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
Carbon tetrachloride	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
Chlorobenzene	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
Chloroethane	ND		120	µg/Kg-dry	1	8/31/2014 04:27 PM
Chloroform	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
Chloromethane	ND		120	µg/Kg-dry	1	8/31/2014 04:27 PM

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

ALS Group USA, Corp

Date: 03-Sep-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 8.25.14
Sample ID: East Composite
Collection Date: 8/25/2014 10:05 AM

Work Order: 14081396
Lab ID: 14081396-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
cis-1,3-Dichloropropene	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
Dibromochloromethane	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
Ethylbenzene	870		35	µg/Kg-dry	1	8/31/2014 04:27 PM
m,p-Xylene	19,000		140	µg/Kg-dry	2	9/2/2014 05:24 PM
Methyl iodide	ND		88	µg/Kg-dry	1	8/31/2014 04:27 PM
Methylene chloride	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
o-Xylene	200		35	µg/Kg-dry	1	8/31/2014 04:27 PM
Styrene	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
Tetrachloroethene	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
Toluene	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
trans-1,2-Dichloroethene	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
trans-1,3-Dichloropropene	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
trans-1,4-Dichloro-2-butene	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
Trichloroethene	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
Vinyl acetate	ND		35	µg/Kg-dry	1	8/31/2014 04:27 PM
Xylenes, Total	20,000		210	µg/Kg-dry	2	9/2/2014 05:24 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	97.4		70-130	%REC	2	9/2/2014 05:24 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	83.4		70-130	%REC	1	8/31/2014 04:27 PM
<i>Surr: 4-Bromofluorobenzene</i>	98.4		70-130	%REC	1	8/31/2014 04:27 PM
<i>Surr: 4-Bromofluorobenzene</i>	95.9		70-130	%REC	2	9/2/2014 05:24 PM
<i>Surr: Dibromofluoromethane</i>	95.9		70-130	%REC	2	9/2/2014 05:24 PM
<i>Surr: Dibromofluoromethane</i>	89.2		70-130	%REC	1	8/31/2014 04:27 PM
<i>Surr: Toluene-d8</i>	104		70-130	%REC	1	8/31/2014 04:27 PM
<i>Surr: Toluene-d8</i>	119		70-130	%REC	2	9/2/2014 05:24 PM
FLASHPOINT, OPEN-CUP			D92			Analyst: RLF
Flashpoint, Open-cup	>200			°F	1	9/2/2014 08:30 AM
PAINT FILTER (FREE LIQUIDS)			SW9095			Analyst: KF
Free Liquids	Pass			none	1	8/28/2014 05:07 PM
MOISTURE			A2540 G			Analyst: JJG
Moisture	14		0.050	% of sample	1	8/29/2014 11:19 AM

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

Client: HRL Compliance Solutions, Inc
Work Order: 14081396
Project: Caerus Garden Gulch 1 8.25.14

QC BATCH REPORT

Batch ID: **62206** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-62206-62206				Units: mg/Kg		Analysis Date: 8/29/2014 06:03 PM		
Client ID:		Run ID: GC8_140829A				SeqNo: 2913138		Prep Date: 8/29/2014		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>	1.07	0	1.667	0	64.2	39-133	0			

LCS		Sample ID: DLCSS1-62206-62206				Units: mg/Kg		Analysis Date: 8/29/2014 06:33 PM		
Client ID:		Run ID: GC8_140829A				SeqNo: 2913139		Prep Date: 8/29/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	134.1	4.2	166.7	0	80.5	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.156	0	1.667	0	69.4	39-133	0			

MS		Sample ID: 14081488-01B MS				Units: mg/Kg		Analysis Date: 8/29/2014 07:03 PM		
Client ID:		Run ID: GC8_140829A				SeqNo: 2913140		Prep Date: 8/29/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	276.2	8.2	329.5	34.68	73.3	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	2.298	0	3.295	0	69.7	39-133	0			

MSD		Sample ID: 14081488-01B MSD				Units: mg/Kg		Analysis Date: 8/29/2014 07:33 PM		
Client ID:		Run ID: GC8_140829A				SeqNo: 2913141		Prep Date: 8/29/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	272.9	8.0	320.7	34.68	74.3	48-110	276.2	1.19	30	
<i>Surr: 4-Terphenyl-d14</i>	2.32	0	3.207	0	72.3	39-133	2.298	0.956	30	

The following samples were analyzed in this batch: | 14081396-01A | 14081396-02A |

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14081396
 Project: Caerus Garden Gulch 1 8.25.14

QC BATCH REPORT

Batch ID: **62231** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-62231-62231				Units: µg/Kg		Analysis Date: 8/30/2014 02:39 AM		
Client ID:		Run ID: GC9_140829A		SeqNo: 2913066		Prep Date: 8/29/2014		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>	5388	0	5000	0	108	50-150	0			

LCS		Sample ID: LCS-62231-62231				Units: µg/Kg		Analysis Date: 8/30/2014 02:14 AM		
Client ID:		Run ID: GC9_140829A		SeqNo: 2913065		Prep Date: 8/29/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	450300	2,500	500000	0	90.1	70-130	0			
<i>Surr: Toluene-d8</i>	5824	0	5000	0	116	50-150	0			

MS		Sample ID: 14081480-01A MS				Units: µg/Kg		Analysis Date: 8/30/2014 03:29 AM		
Client ID:		Run ID: GC9_140829A		SeqNo: 2913068		Prep Date: 8/29/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	456200	2,500	500000	0	91.2	70-130	0			
<i>Surr: Toluene-d8</i>	5856	0	5000	0	117	50-150	0			

MSD		Sample ID: 14081480-01A MSD				Units: µg/Kg		Analysis Date: 8/30/2014 03:54 AM		
Client ID:		Run ID: GC9_140829A		SeqNo: 2913069		Prep Date: 8/29/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	443400	2,500	500000	0	88.7	70-130	456200	2.84	30	
<i>Surr: Toluene-d8</i>	5066	0	5000	0	101	50-150	5856	14.5	30	

The following samples were analyzed in this batch: 14081396-01A 14081396-02A

Client: HRL Compliance Solutions, Inc
 Work Order: 14081396
 Project: Caerus Garden Gulch 1 8.25.14

QC BATCH REPORT

Batch ID: **62110** Instrument ID **HG1** Method: **SW7471**

MBLK	Sample ID: MBLK-62110-62110				Units: mg/Kg			Analysis Date: 8/28/2014 03:42 PM		
Client ID:	Run ID: HG1_140828A				SeqNo: 2909243		Prep Date: 8/28/2014		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-62110-62110				Units: mg/Kg			Analysis Date: 8/28/2014 03:44 PM		
Client ID:	Run ID: HG1_140828A				SeqNo: 2909244		Prep Date: 8/28/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1611 0.020 0.1665 0 96.7 80-120 0

MS	Sample ID: 14081302-01BMS				Units: mg/Kg			Analysis Date: 8/28/2014 03:53 PM		
Client ID:	Run ID: HG1_140828A				SeqNo: 2909248		Prep Date: 8/28/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1154 0.013 0.1049 0.01727 93.5 75-125 0

MSD	Sample ID: 14081302-01BMSD				Units: mg/Kg			Analysis Date: 8/28/2014 03:55 PM		
Client ID:	Run ID: HG1_140828A				SeqNo: 2909249		Prep Date: 8/28/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1277 0.012 0.1018 0.01727 108 75-125 0.1154 10.1 35

The following samples were analyzed in this batch: 14081396-01A 14081396-02A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14081396
Project: Caerus Garden Gulch 1 8.25.14

QC BATCH REPORT

Batch ID: **62130** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-62130-62130				Units: mg/Kg		Analysis Date: 8/27/2014 10:21 PM		
Client ID:		Run ID: ICPMS1_140827A			SeqNo: 2907579		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
Arsenic	0.04416	0.25								J
Barium	0.00955	0.25								J
Cadmium	ND	0.10								
Chromium	ND	0.25								
Lead	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								

LCS		Sample ID: LCS-62130-62130				Units: mg/Kg		Analysis Date: 8/27/2014 10:27 PM		
Client ID:		Run ID: ICPMS1_140827A			SeqNo: 2907580		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
Arsenic	4.45	0.25	5	0	89	80-120		0		
Barium	4.618	0.25	5	0	92.4	80-120		0		
Cadmium	4.591	0.10	5	0	91.8	80-120		0		
Chromium	4.506	0.25	5	0	90.1	80-120		0		
Lead	4.462	0.25	5	0	89.2	80-120		0		
Selenium	4.28	0.25	5	0	85.6	80-120		0		
Silver	4.378	0.25	5	0	87.6	80-120		0		

MS		Sample ID: 14081393-02AMS				Units: mg/Kg		Analysis Date: 8/28/2014 12:36 AM		
Client ID:		Run ID: ICPMS1_140827A			SeqNo: 2907601		Prep Date: 8/27/2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.227	1.8	7.153	2.822	89.5	75-125		0		
Barium	140.2	1.8	7.153	131.7	119	75-125		0		O
Cadmium	7.078	0.72	7.153	0.3342	94.3	75-125		0		
Chromium	18.28	1.8	7.153	8.778	133	75-125		0		S
Lead	18.87	1.8	7.153	12.32	91.6	75-125		0		
Selenium	7.493	1.8	7.153	1.939	77.6	75-125		0		
Silver	6.105	1.8	7.153	0.02237	85	75-125		0		

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

Client: HRL Compliance Solutions, Inc
Work Order: 14081396
Project: Caerus Garden Gulch 1 8.25.14

QC BATCH REPORT

Batch ID: **62130** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 14081393-02AMSD				Units: mg/Kg		Analysis Date: 8/28/2014 01:07 AM			
Client ID:		Run ID: ICPMS1_140827A			SeqNo: 2907604		Prep Date: 8/27/2014		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	9.122	1.8	7.082	2.822	89	75-125	9.227	1.15	25		
Barium	138.1	1.8	7.082	131.7	90.5	75-125	140.2	1.51	25	O	
Cadmium	7.079	0.71	7.082	0.3342	95.2	75-125	7.078	0.00909	25		
Chromium	17.73	1.8	7.082	8.778	126	75-125	18.28	3.07	25	S	
Lead	19.37	1.8	7.082	12.32	99.6	75-125	18.87	2.63	25		
Selenium	7.592	1.8	7.082	1.939	79.8	75-125	7.493	1.32	25		
Silver	6.19	1.8	7.082	0.02237	87.1	75-125	6.105	1.38	25		

The following samples were analyzed in this batch:

14081396-01A	14081396-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
 Work Order: 14081396
 Project: Caerus Garden Gulch 1 8.25.14

QC BATCH REPORT

Batch ID: **62131** Instrument ID **VMS5** Method: **SW8260B**

MBLK		Sample ID: MBLK-62131-62131				Units: µg/Kg		Analysis Date: 8/29/2014 04:29 AM		
Client ID:		Run ID: VMS5_140828A		SeqNo: 2910788		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
1,1,1-Trichloroethane	ND	30								
1,1,2,2-Tetrachloroethane	ND	30								
1,1,2-Trichloroethane	ND	30								
1,1-Dichloroethane	ND	30								
1,1-Dichloroethene	ND	30								
1,2-Dichloroethane	ND	30								
1,2-Dichloropropane	ND	30								
2-Butanone	ND	200								
2-Hexanone	ND	30								
4-Methyl-2-pentanone	ND	30								
Acetone	ND	100								
Benzene	ND	30								
Bromodichloromethane	ND	30								
Bromoform	ND	30								
Bromomethane	ND	75								
Carbon disulfide	ND	30								
Carbon tetrachloride	ND	30								
Chlorobenzene	ND	30								
Chloroethane	ND	100								
Chloroform	ND	30								
Chloromethane	234.5	100								
cis-1,2-Dichloroethene	ND	30								
cis-1,3-Dichloropropene	ND	30								
Dibromochloromethane	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
Methyl iodide	ND	75								
Methylene chloride	135.5	30								
o-Xylene	ND	30								
Styrene	ND	30								
Tetrachloroethene	ND	30								
Toluene	ND	30								
trans-1,2-Dichloroethene	ND	30								
trans-1,3-Dichloropropene	ND	30								
trans-1,4-Dichloro-2-butene	ND	30								
Trichloroethene	ND	30								
Vinyl acetate	ND	30								
Xylenes, Total	ND	90								
<i>Surr: 1,2-Dichloroethane-d4</i>	1029	0	1000	0	103	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	982	0	1000	0	98.2	70-130	0			
<i>Surr: Dibromofluoromethane</i>	1006	0	1000	0	101	70-130	0			
<i>Surr: Toluene-d8</i>	1012	0	1000	0	101	70-130	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14081396
 Project: Caerus Garden Gulch 1 8.25.14

QC BATCH REPORT

Batch ID: **62131** Instrument ID **VMS5** Method: **SW8260B**

LCS		Sample ID: LCS-62131-62131			Units: µg/Kg		Analysis Date: 8/29/2014 02:23 AM			
Client ID:		Run ID: VMS5_140828A			SeqNo: 2910786		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
1,1,1-Trichloroethane	1081	30	1000	0	108	70-135	0			
1,1,2,2-Tetrachloroethane	1144	30	1000	0	114	55-130	0			
1,1,2-Trichloroethane	1116	30	1000	0	112	60-125	0			
1,1-Dichloroethane	1090	30	1000	0	109	75-125	0			
1,1-Dichloroethene	1063	30	1000	0	106	65-135	0			
1,2-Dichloroethane	1088	30	1000	0	109	70-135	0			
1,2-Dichloropropane	1094	30	1000	0	109	70-120	0			
2-Butanone	1191	200	1000	0	119	30-160	0			
2-Hexanone	1266	30	1000	0	127	45-145	0			
4-Methyl-2-pentanone	1592	30	1000	0	159	96-168	0			
Acetone	1125	100	1000	0	112	20-160	0			
Benzene	1078	30	1000	0	108	75-125	0			
Bromodichloromethane	1130	30	1000	0	113	70-130	0			
Bromoform	1042	30	1000	0	104	55-135	0			
Bromomethane	1180	75	1000	0	118	30-160	0			
Carbon disulfide	1012	30	1000	0	101	45-160	0			
Carbon tetrachloride	1084	30	1000	0	108	65-135	0			
Chlorobenzene	1107	30	1000	0	111	75-125	0			
Chloroethane	916	100	1000	0	91.6	40-155	0			
Chloroform	1073	30	1000	0	107	70-125	0			
Chloromethane	938	100	1000	0	93.8	50-130	0			B
cis-1,2-Dichloroethene	1080	30	1000	0	108	65-125	0			
cis-1,3-Dichloropropene	1170	30	1000	0	117	70-125	0			
Dibromochloromethane	1008	30	1000	0	101	65-135	0			
Ethylbenzene	1114	30	1000	0	111	75-125	0			
m,p-Xylene	2223	60	2000	0	111	80-125	0			
Methyl iodide	994	75	1000	0	99.4	64-145	0			
Methylene chloride	1095	30	1000	0	110	55-145	0			B
o-Xylene	1134	30	1000	0	113	75-125	0			
Styrene	1170	30	1000	0	117	75-125	0			
Tetrachloroethene	1088	30	1000	0	109	64-140	0			
Toluene	1086	30	1000	0	109	70-125	0			
trans-1,2-Dichloroethene	1104	30	1000	0	110	65-135	0			
trans-1,3-Dichloropropene	1184	30	1000	0	118	65-125	0			
trans-1,4-Dichloro-2-butene	942.5	30	1000	0	94.2	62-112	0			
Trichloroethene	1099	30	1000	0	110	75-125	0			
Xylenes, Total	3358	90	3000	0	112	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	998.5	0	1000	0	99.8	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	991.5	0	1000	0	99.2	70-130	0			
<i>Surr: Dibromofluoromethane</i>	1009	0	1000	0	101	70-130	0			
<i>Surr: Toluene-d8</i>	1010	0	1000	0	101	70-130	0			

The following samples were analyzed in this batch: 14081396-01A 14081396-02A

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

Client: HRL Compliance Solutions, Inc
 Work Order: 14081396
 Project: Caerus Garden Gulch 1 8.25.14

QC BATCH REPORT

Batch ID: **R147285** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R147285				Units: % of sample			Analysis Date: 8/29/2014 10:41 AM		
Client ID:	Run ID: MOIST_140829B			SeqNo: 2911327		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-R147285				Units: % of sample			Analysis Date: 8/29/2014 10:41 AM		
Client ID:	Run ID: MOIST_140829B			SeqNo: 2911323		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: 14081406-22BDUP				Units: % of sample			Analysis Date: 8/29/2014 10:41 AM		
Client ID:	Run ID: MOIST_140829B			SeqNo: 2911310		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 20.18 0.050 0 0 0 0-0 20.19 0.0495 20

DUP	Sample ID: 14081406-32ADUP				Units: % of sample			Analysis Date: 8/29/2014 10:41 AM		
Client ID:	Run ID: MOIST_140829B			SeqNo: 2911321		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 13.95 0.050 0 0 0 0-0 14.96 6.99 20

The following samples were analyzed in this batch:

14081396-01A

Client: HRL Compliance Solutions, Inc
 Work Order: 14081396
 Project: Caerus Garden Gulch 1 8.25.14

QC BATCH REPORT

Batch ID: **R147297** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R147297		Units: % of sample				Analysis Date: 8/29/2014 11:19 AM			
Client ID:	Run ID: MOIST_140829C		SeqNo: 2911654		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-R147297		Units: % of sample				Analysis Date: 8/29/2014 11:19 AM			
Client ID:	Run ID: MOIST_140829C		SeqNo: 2911650		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: 14081311-08ADUP		Units: % of sample				Analysis Date: 8/29/2014 11:19 AM			
Client ID:	Run ID: MOIST_140829C		SeqNo: 2911631		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 4.52 0.050 0 0 0 0-0 4.14 8.78 20

DUP	Sample ID: 14081396-02A DUP		Units: % of sample				Analysis Date: 8/29/2014 11:19 AM			
Client ID: East Composite	Run ID: MOIST_140829C		SeqNo: 2911648		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 14.76 0.050 0 0 0 0-0 14.4 2.47 20

The following samples were analyzed in this batch: 14081396-02A

Client: HRL Compliance Solutions, Inc
Work Order: 14081396
Project: Caerus Garden Gulch 1 8.25.14

QC BATCH REPORT

Batch ID: **R147393** Instrument ID **WETCHEM** Method: **D92**

LCS	Sample ID: LCS-R147393-R147393		Units: °F		Analysis Date: 9/2/2014 08:30 AM					
Client ID:	Run ID: WETCHEM_140902L		SeqNo: 2913890		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Flashpoint, Open-cup	80	0	81	0	98.8	97-103	0			

The following samples were analyzed in this batch:

14081396-01A	14081396-02A
--------------	--------------



ALS Laboratory Group

3352 126th Ave. Holland, MI 49424
 TF: (800) 443-1511 PH: (616) 399-6070 FX: (616) 399-8185

Chain-of-Custody

Form 202a

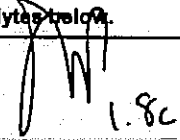
WORKORDER # **14081396**

PROJECT NAME		SAMPLER		DATE		PAGE	
CAERUS GARDEN GULCH 1		Casey Richardson		8-25-14		1 of 1	
PROJECT No.		SITE ID		TURNAROUND		DISPOSAL	
		SPOILS STOCKPILE		5 DAY		By Lab or Return to Client	
COMPANY NAME		BILL TO COMPANY		PAH - See Comments			
HCSI		Caerus Piceance LLC		Ignitability			
SEND REPORT TO		INVOICE ATTN TO		Paint Filter			
Casey Richardson		Ed Winters		BTEX			
ADDRESS		ADDRESS					
2385 F 1/2 Road		120 Railroad Ave. Suite D					
CITY / STATE / ZIP		CITY / STATE / ZIP					
Grand Junction, CO. 81605		Parachute, CO 81835					
PHONE		PHONE					
970-243-3271		970-285-9608					
FAX		FAX					
970-243-3280							
E-MAIL		E-MAIL					
crichardson@hrcomp.com		ewinters@caerusoilandgas.com					

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	RCRA 8 Metals	Full List VOCs	DRO	GRO	PAH - See Comments	Ignitability	Paint Filter	BTEX
1	WEST COMPOSITE	SOIL	8-25-14	945	2	8		X	X	X	X	X	X	X	X
2	EAST COMPOSITE	1	1	1005	1	1		X	X	X	X	X	X	X	X

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

For metals or anions, please detail analytes below.

Comments:  1.8c Run PAH to DRO/GRO are above 5000 mg/kg IF 5 POINT COMPOSITE SAMPLES	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forms)
	<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)
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	8-25-14	1200
RECEIVED BY			8-25-14	1200
RELINQUISHED BY			8-25-14	1700
RECEIVED BY		Diane E. Shea	8/27/14	0930
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **27-Aug-14 09:30**

Work Order: **14081396**

Received by: **DS**

Checklist completed by Diane Shaw 27-Aug-14
eSignature Date

Reviewed by: Ann Preston 27-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="1.8 c"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="8/27/2014 11:28:13 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: (810) 390-6670
Sample Receiving
ALS Laboratory Group
3352 128th Avenue
Holland, MI 49424

Origin ID: HLMA



Ship Date: 25AUG14
Actual: 40.9 LB
CAD: 2284840NET3550

Dim: 24 X 15 X 15 IN

Delivery Address Bar Code



SHIP TO: (810) 390-6670
sample receiving
ALS Laboratory Group
3352 128TH AVE

BILL SENDER

Ref # 082514-1
Invoice #
PO # Parachute
Dept #

HOLLAND, MI 49424

4 of 4

TUE - 26 AUG 10:30A
PRIORITY OVERNIGHT

MP# 7708 4045 1164

1235

Mat# 7708 4045 0591

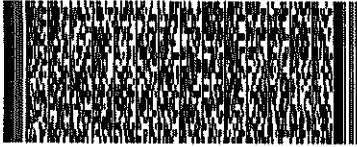
5211

49424

MI-US

GRR

68 HLMA



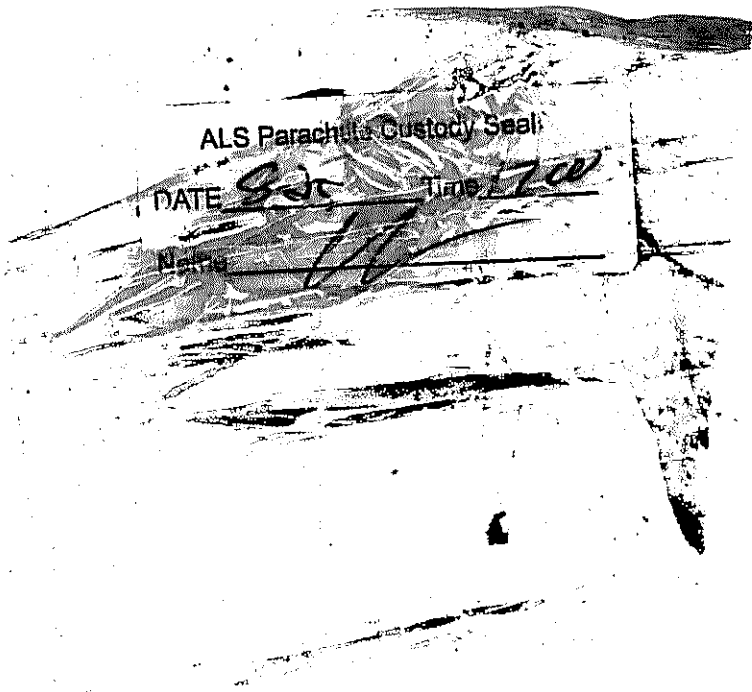
0230UE0726400

After printing this label:

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

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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24-Aug-2015

Casey Richardson
HRL Compliance Solutions, Inc
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Caerus Garden Gulch 1 Soil Stockpile**

Work Order: **15081030**

Dear Casey,

ALS Environmental received 3 samples on 19-Aug-2015 09:50 PM 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 27.

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

Sincerely,

A handwritten signature in black ink that reads "Les Arnold".

Electronically approved by: Les Arnold

Les Arnold
Senior Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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 Garden Gulch 1 Soil Stockpile
Work Order: 15081030

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>
15081030-01	West End of Stockpile	Soil		8/18/2015 10:45	8/19/2015 21:50	<input type="checkbox"/>
15081030-02	Middle of Stockpile	Soil		8/18/2015 10:30	8/19/2015 21:50	<input type="checkbox"/>
15081030-03	East End of Stockpile	Soil		8/18/2015 10:15	8/19/2015 21:50	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 Soil Stockpile
WorkOrder: 15081030

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
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

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 Soil Stockpile
Work Order: 15081030

Case Narrative

Samples for the above noted Work Order were received on 08/19/2015. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

Sample Receiving:

No deviations or anomalies were noted.

Volatile Organics:

No deviations or anomalies were noted.

Extractable Organics:

No deviations or anomalies were noted.

Metals:

No deviations or anomalies were noted.

Wet Chemistry:

No deviations or anomalies were noted.

ALS Group USA, Corp

Date: 24-Aug-15

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 Soil Stockpile
Sample ID: West End of Stockpile
Collection Date: 8/18/2015 10:45 AM

Work Order: 15081030
Lab ID: 15081030-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 8/20/15	Analyst: IT
DRO (C10-C28)	100		5.0	mg/Kg-dry	1	8/20/2015 06:45 PM
<i>Surr: 4-Terphenyl-d14</i>	58.7		39-133	%REC	1	8/20/2015 06:45 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015D		Prep: SW5035 / 8/20/15	Analyst: IT
GRO (C6-C10)	220		3.1	mg/Kg-dry	1	8/20/2015 09:17 PM
<i>Surr: Toluene-d8</i>	96.4		50-150	%REC	1	8/20/2015 09:17 PM
MERCURY BY CVAA			SW7471B		Prep: SW7471 / 8/20/15	Analyst: LR
Mercury	0.026		0.016	mg/Kg-dry	1	8/20/2015 07:35 PM
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 8/20/15	Analyst: JEC
Arsenic	12		0.43	mg/Kg-dry	1	8/21/2015 12:09 PM
Barium	290		0.43	mg/Kg-dry	1	8/21/2015 12:09 PM
Cadmium	ND		0.86	mg/Kg-dry	1	8/21/2015 12:09 PM
Chromium	11		0.43	mg/Kg-dry	1	8/21/2015 12:09 PM
Copper	21		0.86	mg/Kg-dry	1	8/21/2015 12:09 PM
Lead	8.0		0.43	mg/Kg-dry	1	8/21/2015 12:09 PM
Nickel	31		0.43	mg/Kg-dry	1	8/21/2015 12:09 PM
Selenium	ND		0.86	mg/Kg-dry	1	8/21/2015 12:09 PM
Silver	ND		0.43	mg/Kg-dry	1	8/21/2015 12:09 PM
Zinc	61		0.86	mg/Kg-dry	1	8/21/2015 12:09 PM
SOLUBLE CATIONS FOR SAR			SW846 6010C		Prep: USDA Method 20B / 8/24/15	Analyst: JEC
Calcium	390		5.0	mg/L	10	8/24/2015 02:17 PM
Magnesium	190		2.0	mg/L	10	8/24/2015 02:17 PM
Sodium	940		2.0	mg/L	10	8/24/2015 02:17 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 8/24/15	Analyst: JEC
Sodium Adsorption Ratio	9.8		0.010	none	1	8/24/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3541 / 8/20/15	Analyst: RM
Acenaphthene	ND		0.0079	mg/Kg-dry	1	8/21/2015 05:30 AM
Anthracene	ND		0.0079	mg/Kg-dry	1	8/21/2015 05:30 AM
Benzo(a)anthracene	ND		0.0079	mg/Kg-dry	1	8/21/2015 05:30 AM
Benzo(a)pyrene	ND		0.0079	mg/Kg-dry	1	8/21/2015 05:30 AM
Benzo(b)fluoranthene	ND		0.0079	mg/Kg-dry	1	8/21/2015 05:30 AM
Benzo(k)fluoranthene	ND		0.0079	mg/Kg-dry	1	8/21/2015 05:30 AM
Chrysene	ND		0.0079	mg/Kg-dry	1	8/21/2015 05:30 AM
Dibenzo(a,h)anthracene	ND		0.0079	mg/Kg-dry	1	8/21/2015 05:30 AM
Fluoranthene	ND		0.0079	mg/Kg-dry	1	8/21/2015 05:30 AM

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

ALS Group USA, Corp

Date: 24-Aug-15

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 Soil Stockpile
Sample ID: West End of Stockpile
Collection Date: 8/18/2015 10:45 AM

Work Order: 15081030
Lab ID: 15081030-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND		0.0079	mg/Kg-dry	1	8/21/2015 05:30 AM
Naphthalene	0.018		0.0079	mg/Kg-dry	1	8/21/2015 05:30 AM
Pyrene	ND		0.0079	mg/Kg-dry	1	8/21/2015 05:30 AM
Surr: 2-Fluorobiphenyl	62.6		12-100	%REC	1	8/21/2015 05:30 AM
Surr: 4-Terphenyl-d14	79.9		25-137	%REC	1	8/21/2015 05:30 AM
Surr: Nitrobenzene-d5	70.4		37-107	%REC	1	8/21/2015 05:30 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/20/15	Analyst: BG
Benzene	ND		0.037	mg/Kg-dry	1	8/20/2015 10:00 PM
Surr: 1,2-Dichloroethane-d4	96.3		70-130	%REC	1	8/20/2015 10:00 PM
Surr: 4-Bromofluorobenzene	112		70-130	%REC	1	8/20/2015 10:00 PM
Surr: Dibromofluoromethane	96.2		70-130	%REC	1	8/20/2015 10:00 PM
Surr: Toluene-d8	100		70-130	%REC	1	8/20/2015 10:00 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 8/24/15	Analyst: JJG
Electrical Conductivity @ Saturation	10		0.050	mmhos/cm @2	10	8/24/2015 02:15 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	11		0.61	mg/Kg-dry	1	8/24/2015 11:00 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 8/20/15	Analyst: MB
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	8/21/2015 03:00 PM
MOISTURE			E160.3M			Analyst: EVB
Moisture	18		0.050	% of sample	1	8/20/2015 08:40 AM
PH			SW9045D		Prep: EXTRACT / 8/24/15	Analyst: ED
pH	8.6			s.u.	1	8/24/2015 01:15 PM

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

Client: HRL Compliance Solutions, Inc
 Project: Caerus Garden Gulch 1 Soil Stockpile
 Sample ID: Middle of Stockpile
 Collection Date: 8/18/2015 10:30 AM

Work Order: 15081030
 Lab ID: 15081030-02
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 8/20/15	Analyst: IT
DRO (C10-C28)	63		4.9	mg/Kg-dry	1	8/20/2015 08:15 PM
Surr: 4-Terphenyl-d14	59.4		39-133	%REC	1	8/20/2015 08:15 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015D		Prep: SW5035 / 8/20/15	Analyst: IT
GRO (C6-C10)	110		3.0	mg/Kg-dry	1	8/20/2015 10:05 PM
Surr: Toluene-d8	98.1		50-150	%REC	1	8/20/2015 10:05 PM
MERCURY BY CVAA			SW7471B		Prep: SW7471 / 8/20/15	Analyst: LR
Mercury	0.022		0.016	mg/Kg-dry	1	8/20/2015 07:37 PM
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 8/20/15	Analyst: JEC
Arsenic	10		0.46	mg/Kg-dry	1	8/21/2015 12:15 PM
Barium	250		0.46	mg/Kg-dry	1	8/21/2015 12:15 PM
Cadmium	ND		0.92	mg/Kg-dry	1	8/21/2015 12:15 PM
Chromium	10		0.46	mg/Kg-dry	1	8/21/2015 12:15 PM
Copper	21		0.92	mg/Kg-dry	1	8/21/2015 12:15 PM
Lead	8.2		0.46	mg/Kg-dry	1	8/21/2015 12:15 PM
Nickel	31		0.46	mg/Kg-dry	1	8/21/2015 12:15 PM
Selenium	ND		0.92	mg/Kg-dry	1	8/21/2015 12:15 PM
Silver	ND		0.46	mg/Kg-dry	1	8/21/2015 12:15 PM
Zinc	65		0.92	mg/Kg-dry	1	8/21/2015 12:15 PM
SOLUBLE CATIONS FOR SAR			SW846 6010C		Prep: USDA Method 20B / 8/24/15	Analyst: JEC
Calcium	460		5.0	mg/L	10	8/24/2015 02:23 PM
Magnesium	220		2.0	mg/L	10	8/24/2015 02:23 PM
Sodium	1,100		2.0	mg/L	10	8/24/2015 02:23 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 8/24/15	Analyst: JEC
Sodium Adsorption Ratio	11		0.010	none	1	8/24/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3541 / 8/20/15	Analyst: RM
Acenaphthene	ND		0.0078	mg/Kg-dry	1	8/21/2015 05:49 AM
Anthracene	ND		0.0078	mg/Kg-dry	1	8/21/2015 05:49 AM
Benzo(a)anthracene	ND		0.0078	mg/Kg-dry	1	8/21/2015 05:49 AM
Benzo(a)pyrene	ND		0.0078	mg/Kg-dry	1	8/21/2015 05:49 AM
Benzo(b)fluoranthene	ND		0.0078	mg/Kg-dry	1	8/21/2015 05:49 AM
Benzo(k)fluoranthene	ND		0.0078	mg/Kg-dry	1	8/21/2015 05:49 AM
Chrysene	ND		0.0078	mg/Kg-dry	1	8/21/2015 05:49 AM
Dibenzo(a,h)anthracene	ND		0.0078	mg/Kg-dry	1	8/21/2015 05:49 AM
Fluoranthene	ND		0.0078	mg/Kg-dry	1	8/21/2015 05:49 AM

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

ALS Group USA, Corp

Date: 24-Aug-15

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 Soil Stockpile
Sample ID: Middle of Stockpile
Collection Date: 8/18/2015 10:30 AM

Work Order: 15081030
Lab ID: 15081030-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND		0.0078	mg/Kg-dry	1	8/21/2015 05:49 AM
Naphthalene	0.014		0.0078	mg/Kg-dry	1	8/21/2015 05:49 AM
Pyrene	ND		0.0078	mg/Kg-dry	1	8/21/2015 05:49 AM
Surr: 2-Fluorobiphenyl	56.9		12-100	%REC	1	8/21/2015 05:49 AM
Surr: 4-Terphenyl-d14	73.9		25-137	%REC	1	8/21/2015 05:49 AM
Surr: Nitrobenzene-d5	64.7		37-107	%REC	1	8/21/2015 05:49 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/20/15	Analyst: BG
Benzene	ND		0.036	mg/Kg-dry	1	8/20/2015 10:25 PM
Surr: 1,2-Dichloroethane-d4	99.2		70-130	%REC	1	8/20/2015 10:25 PM
Surr: 4-Bromofluorobenzene	107		70-130	%REC	1	8/20/2015 10:25 PM
Surr: Dibromofluoromethane	97.4		70-130	%REC	1	8/20/2015 10:25 PM
Surr: Toluene-d8	99.5		70-130	%REC	1	8/20/2015 10:25 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 8/24/15	Analyst: JJG
Electrical Conductivity @ Saturation	10		0.050	mmhos/cm @2	10	8/24/2015 02:15 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	10		0.60	mg/Kg-dry	1	8/24/2015 11:00 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 8/20/15	Analyst: MB
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	8/21/2015 03:00 PM
MOISTURE			E160.3M			Analyst: EVB
Moisture	16		0.050	% of sample	1	8/20/2015 08:40 AM
PH			SW9045D		Prep: EXTRACT / 8/24/15	Analyst: ED
pH	8.7			s.u.	1	8/24/2015 01:15 PM

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

ALS Group USA, Corp

Date: 24-Aug-15

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 Soil Stockpile
Sample ID: East End of Stockpile
Collection Date: 8/18/2015 10:15 AM

Work Order: 15081030
Lab ID: 15081030-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 8/20/15	Analyst: IT
DRO (C10-C28)	160		4.8	mg/Kg-dry	1	8/20/2015 08:45 PM
<i>Surr: 4-Terphenyl-d14</i>	59.6		39-133	%REC	1	8/20/2015 08:45 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015D		Prep: SW5035 / 8/20/15	Analyst: IT
GRO (C6-C10)	48		3.0	mg/Kg-dry	1	8/20/2015 10:29 PM
<i>Surr: Toluene-d8</i>	98.0		50-150	%REC	1	8/20/2015 10:29 PM
MERCURY BY CVAA			SW7471B		Prep: SW7471 / 8/20/15	Analyst: LR
Mercury	0.021		0.017	mg/Kg-dry	1	8/20/2015 07:40 PM
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 8/20/15	Analyst: JEC
Arsenic	13		0.39	mg/Kg-dry	1	8/21/2015 12:20 PM
Barium	260		0.39	mg/Kg-dry	1	8/21/2015 12:20 PM
Cadmium	ND		0.79	mg/Kg-dry	1	8/21/2015 12:20 PM
Chromium	11		0.39	mg/Kg-dry	1	8/21/2015 12:20 PM
Copper	21		0.79	mg/Kg-dry	1	8/21/2015 12:20 PM
Lead	8.1		0.39	mg/Kg-dry	1	8/21/2015 12:20 PM
Nickel	33		0.39	mg/Kg-dry	1	8/21/2015 12:20 PM
Selenium	ND		0.79	mg/Kg-dry	1	8/21/2015 12:20 PM
Silver	ND		0.39	mg/Kg-dry	1	8/21/2015 12:20 PM
Zinc	61		0.79	mg/Kg-dry	1	8/21/2015 12:20 PM
SOLUBLE CATIONS FOR SAR			SW846 6010C		Prep: USDA Method 20B / 8/24/15	Analyst: JEC
Calcium	390		5.0	mg/L	10	8/24/2015 02:34 PM
Magnesium	240		2.0	mg/L	10	8/24/2015 02:34 PM
Sodium	1,100		2.0	mg/L	10	8/24/2015 02:34 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 8/24/15	Analyst: JEC
Sodium Adsorption Ratio	10		0.010	none	1	8/24/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3541 / 8/20/15	Analyst: RM
Acenaphthene	ND		0.0077	mg/Kg-dry	1	8/21/2015 06:09 AM
Anthracene	ND		0.0077	mg/Kg-dry	1	8/21/2015 06:09 AM
Benzo(a)anthracene	0.0081		0.0077	mg/Kg-dry	1	8/21/2015 06:09 AM
Benzo(a)pyrene	ND		0.0077	mg/Kg-dry	1	8/21/2015 06:09 AM
Benzo(b)fluoranthene	ND		0.0077	mg/Kg-dry	1	8/21/2015 06:09 AM
Benzo(k)fluoranthene	ND		0.0077	mg/Kg-dry	1	8/21/2015 06:09 AM
Chrysene	ND		0.0077	mg/Kg-dry	1	8/21/2015 06:09 AM
Dibenzo(a,h)anthracene	ND		0.0077	mg/Kg-dry	1	8/21/2015 06:09 AM
Fluoranthene	0.0081		0.0077	mg/Kg-dry	1	8/21/2015 06:09 AM

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

ALS Group USA, Corp

Date: 24-Aug-15

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 1 Soil Stockpile
Sample ID: East End of Stockpile
Collection Date: 8/18/2015 10:15 AM

Work Order: 15081030
Lab ID: 15081030-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND		0.0077	mg/Kg-dry	1	8/21/2015 06:09 AM
Naphthalene	0.017		0.0077	mg/Kg-dry	1	8/21/2015 06:09 AM
Pyrene	0.0093		0.0077	mg/Kg-dry	1	8/21/2015 06:09 AM
Surr: 2-Fluorobiphenyl	64.0		12-100	%REC	1	8/21/2015 06:09 AM
Surr: 4-Terphenyl-d14	83.5		25-137	%REC	1	8/21/2015 06:09 AM
Surr: Nitrobenzene-d5	70.0		37-107	%REC	1	8/21/2015 06:09 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 8/20/15	Analyst: BG
Benzene	ND		0.036	mg/Kg-dry	1	8/20/2015 10:50 PM
Surr: 1,2-Dichloroethane-d4	99.4		70-130	%REC	1	8/20/2015 10:50 PM
Surr: 4-Bromofluorobenzene	97.0		70-130	%REC	1	8/20/2015 10:50 PM
Surr: Dibromofluoromethane	97.8		70-130	%REC	1	8/20/2015 10:50 PM
Surr: Toluene-d8	100		70-130	%REC	1	8/20/2015 10:50 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 8/24/15	Analyst: JJG
Electrical Conductivity @ Saturation	12		0.050	mmhos/cm @2	10	8/24/2015 02:15 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	11		0.59	mg/Kg-dry	1	8/24/2015 11:00 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 8/20/15	Analyst: MB
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	8/21/2015 03:00 PM
MOISTURE			E160.3M			Analyst: EVB
Moisture	16		0.050	% of sample	1	8/20/2015 08:40 AM
PH			SW9045D		Prep: EXTRACT / 8/24/15	Analyst: ED
pH	8.4			s.u.	1	8/24/2015 01:15 PM

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

Client: HRL Compliance Solutions, Inc
Work Order: 15081030
Project: Caerus Garden Gulch 1 Soil Stockpile

QC BATCH REPORT

Batch ID: **75051** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-75051-75051				Units: mg/Kg		Analysis Date: 8/20/2015 04:45 PM		
Client ID:		Run ID: GC8_150820A		SeqNo: 3426468		Prep Date: 8/20/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
<i>Surr: 4-Terphenyl-d14</i>	1.098	0	2	0	54.9	39-133	0			

LCS		Sample ID: DLCSS1-75051-75051				Units: mg/Kg		Analysis Date: 8/20/2015 05:15 PM		
Client ID:		Run ID: GC8_150820A		SeqNo: 3426469		Prep Date: 8/20/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	185.8	5.0	200	0	92.9	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.212	0	2	0	60.6	39-133	0			

MS		Sample ID: 15081030-01B MS				Units: mg/Kg		Analysis Date: 8/20/2015 05:45 PM		
Client ID: West End of Stockpile		Run ID: GC8_150820A		SeqNo: 3426470		Prep Date: 8/20/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	199.7	4.1	162.6	84.64	70.7	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	0.9826	0	1.626	0	60.4	39-133	0			

MSD		Sample ID: 15081030-01B MSD				Units: mg/Kg		Analysis Date: 8/20/2015 06:15 PM		
Client ID: West End of Stockpile		Run ID: GC8_150820A		SeqNo: 3426471		Prep Date: 8/20/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	211.9	4.1	163.1	84.64	78	48-110	199.7	5.95	30	
<i>Surr: 4-Terphenyl-d14</i>	0.9884	0	1.631	0	60.6	39-133	0.9826	0.58	30	

The following samples were analyzed in this batch:

15081030-01B	15081030-02B	15081030-03B
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Client: HRL Compliance Solutions, Inc
 Work Order: 15081030
 Project: Caerus Garden Gulch 1 Soil Stockpile

QC BATCH REPORT

Batch ID: **75052** Instrument ID **GC10** Method: **SW8015D**

MBLK		Sample ID: MBLK-75052-75052				Units: µg/Kg		Analysis Date: 8/20/2015 07:40 PM		
Client ID:		Run ID: GC10_150820A		SeqNo: 3426573		Prep Date: 8/20/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
<i>Surr: Toluene-d8</i>	4782	0	5000	0	95.6	50-150	0			

MBLK		Sample ID: MBLK-75052-75052				Units: µg/Kg		Analysis Date: 8/20/2015 04:55 PM		
Client ID:		Run ID: GC9_150820A		SeqNo: 3427218		Prep Date: 8/20/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								

LCS		Sample ID: LCS-75052-75052				Units: µg/Kg		Analysis Date: 8/20/2015 07:16 PM		
Client ID:		Run ID: GC10_150820A		SeqNo: 3426572		Prep Date: 8/20/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	532100	2,500	500000	0	106	70-130	0			
<i>Surr: Toluene-d8</i>	4736	0	5000	0	94.7	50-150	0			

LCS		Sample ID: LCS-75052-75052				Units: µg/Kg		Analysis Date: 8/20/2015 04:30 PM		
Client ID:		Run ID: GC9_150820A		SeqNo: 3427216		Prep Date: 8/20/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	555900	2,500	500000	0	111	80-120	0			

MS		Sample ID: 15081030-01A MS				Units: µg/Kg		Analysis Date: 8/20/2015 10:54 PM		
Client ID: West End of Stockpile		Run ID: GC10_150820A		SeqNo: 3426580		Prep Date: 8/20/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	718000	2,500	500000	176900	108	70-130	0			
<i>Surr: Toluene-d8</i>	4842	0	5000	0	96.8	50-150	0			

MSD		Sample ID: 15081030-01A MSD				Units: µg/Kg		Analysis Date: 8/20/2015 11:18 PM		
Client ID: West End of Stockpile		Run ID: GC10_150820A		SeqNo: 3426581		Prep Date: 8/20/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	701900	2,500	500000	176900	105	70-130	718000	2.27	30	
<i>Surr: Toluene-d8</i>	4844	0	5000	0	96.9	50-150	4842	0.0206	30	

The following samples were analyzed in this batch:

15081030-01A	15081030-02A	15081030-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
 Work Order: 15081030
 Project: Caerus Garden Gulch 1 Soil Stockpile

QC BATCH REPORT

Batch ID: **75062** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK		Sample ID: MBLK-75062-75062				Units: mg/Kg		Analysis Date: 8/21/2015 09:01 AM		
Client ID:		Run ID: ICP2_150821A			SeqNo: 3426798		Prep Date: 8/20/2015		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	0.50								
Chromium	0.01461	0.25								J
Copper	ND	0.50								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS		Sample ID: LCS-75062-75062				Units: mg/Kg		Analysis Date: 8/21/2015 09:07 AM		
Client ID:		Run ID: ICP2_150821A			SeqNo: 3426799		Prep Date: 8/20/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.849	0.25	5	0	97	80-120	0			
Barium	4.878	0.25	5	0	97.6	80-120	0			
Cadmium	4.55	0.50	5	0	91	80-120	0			
Chromium	5.129	0.25	5	0	103	80-120	0			
Copper	4.928	0.50	5	0	98.6	80-120	0			
Lead	5.002	0.25	5	0	100	80-120	0			
Nickel	5.055	0.25	5	0	101	80-120	0			
Selenium	4.944	0.50	5	0	98.9	80-120	0			
Silver	4.807	0.25	5	0	96.1	80-120	0			
Zinc	4.534	0.50	5	0	90.7	80-120	0			

MS		Sample ID: 15081041-04AMS				Units: mg/Kg		Analysis Date: 8/21/2015 09:53 AM		
Client ID:		Run ID: ICP2_150821A			SeqNo: 3426807		Prep Date: 8/20/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	22.9	0.37	7.396	14.14	119	75-125	0			
Barium	30.46	0.37	7.396	19.19	152	75-125	0			S
Cadmium	7.163	0.74	7.396	0.01627	96.6	75-125	0			
Chromium	24.05	0.37	7.396	12.26	159	75-125	0			S
Copper	67.11	0.74	7.396	51.86	206	75-125	0			SO
Lead	26.16	0.37	7.396	14.63	156	75-125	0			S
Nickel	68.53	0.37	7.396	56.96	156	75-125	0			SO
Selenium	9.44	0.74	7.396	1.493	107	75-125	0			
Silver	7.866	0.37	7.396	-0.01271	107	75-125	0			
Zinc	31.28	0.74	7.396	19.51	159	75-125	0			S

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

Client: HRL Compliance Solutions, Inc
Work Order: 15081030
Project: Caerus Garden Gulch 1 Soil Stockpile

QC BATCH REPORT

Batch ID: **75062** Instrument ID **ICP2** Method: **SW846 6010C**

MSD		Sample ID: 15081041-04AMSD				Units: mg/Kg		Analysis Date: 8/21/2015 10:21 AM		
Client ID:		Run ID: ICP2_150821A			SeqNo: 3426812		Prep Date: 8/20/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	22.85	0.37	7.321	14.14	119	75-125	22.9	0.224	20	
Barium	29.07	0.37	7.321	19.19	135	75-125	30.46	4.65	20	S
Cadmium	7.02	0.73	7.321	0.01627	95.7	75-125	7.163	2.02	20	
Chromium	23.56	0.37	7.321	12.26	154	75-125	24.05	2.08	20	S
Copper	67.47	0.73	7.321	51.86	213	75-125	67.11	0.537	20	SO
Lead	28.08	0.37	7.321	14.63	184	75-125	26.16	7.07	20	S
Nickel	68.98	0.37	7.321	56.96	164	75-125	68.53	0.659	20	SO
Selenium	8.976	0.73	7.321	1.493	102	75-125	9.44	5.05	20	
Silver	7.77	0.37	7.321	-0.01271	106	75-125	7.866	1.23	20	
Zinc	32.6	0.73	7.321	19.51	179	75-125	31.28	4.15	20	S

The following samples were analyzed in this batch:

15081030-01B	15081030-02B	15081030-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 15081030
Project: Caerus Garden Gulch 1 Soil Stockpile

QC BATCH REPORT

Batch ID: **75099** Instrument ID **ICP2** Method: **SW846 6010C**

DUP		Sample ID: 15081030-02CDUP				Units: mg/L		Analysis Date: 8/24/2015 02:28 PM		
Client ID: Middle of Stockpile		Run ID: ICP2_150824A				SeqNo: 3429366		Prep Date: 8/24/2015		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	480.8	5.0	0	0	0	0-0	464.8	3.4		
Magnesium	236.5	2.0	0	0	0	0-0	220.8	6.87		
Sodium	1208	2.0	0	0	0	0-0	1133	6.39		

DUP		Sample ID: 15081030-02CDUP				Units: none		Analysis Date: 8/24/2015		
Client ID: Middle of Stockpile		Run ID: SAR_150824A				SeqNo: 3429432		Prep Date: 8/24/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	11.27	0.010	0	0	0		10.84	3.92	50	

The following samples were analyzed in this batch:

15081030-01C	15081030-02C	15081030-03C
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 15081030
Project: Caerus Garden Gulch 1 Soil Stockpile

QC BATCH REPORT

Batch ID: **75050** Instrument ID **SVMS8** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-75050-75050				Units: µg/Kg		Analysis Date: 8/20/2015 05:44 PM		
Client ID:		Run ID: SVMS8_150820A		SeqNo: 3426932		Prep Date: 8/20/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	4	6.7								J
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	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>	878	0	1667	0	52.7	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1246	0	1667	0	74.7	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	917	0	1667	0	55	37-107	0			

LCS		Sample ID: SLCSS1-75050-75050				Units: µg/Kg		Analysis Date: 8/20/2015 06:04 PM		
Client ID:		Run ID: SVMS8_150820A		SeqNo: 3426933		Prep Date: 8/20/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	507	6.7	666.7	0	76	45-110	0			
Anthracene	610	6.7	666.7	0	91.5	55-105	0			
Benzo(a)anthracene	613.3	6.7	666.7	0	92	50-110	0			
Benzo(a)pyrene	621.7	6.7	666.7	0	93.2	50-110	0			
Benzo(b)fluoranthene	650	6.7	666.7	0	97.5	45-115	0			
Benzo(k)fluoranthene	655	6.7	666.7	0	98.2	45-115	0			
Chrysene	621	6.7	666.7	0	93.1	55-110	0			
Dibenzo(a,h)anthracene	542.7	6.7	666.7	0	81.4	40-125	0			
Fluoranthene	642.3	6.7	666.7	0	96.3	55-115	0			
Indeno(1,2,3-cd)pyrene	549.7	6.7	666.7	0	82.4	40-120	0			
Naphthalene	462	6.7	666.7	0	69.3	40-105	0			
Pyrene	639.7	6.7	666.7	0	95.9	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1091	0	1667	0	65.4	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1394	0	1667	0	83.6	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1169	0	1667	0	70.2	37-107	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 15081030
 Project: Caerus Garden Gulch 1 Soil Stockpile

QC BATCH REPORT

Batch ID: 75050 Instrument ID SVMS8 Method: SW846 8270D

MS				Sample ID: 1508996-02B MS			Units: µg/Kg		Analysis Date: 8/20/2015 08:08 PM		
Client ID:		Run ID: SVMS8_150820A		SeqNo: 3426934		Prep Date: 8/20/2015		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	874.5	13	1260	10.86	68.5	45-110	0				
Anthracene	1050	13	1260	0	83.3	55-105	0				
Benzo(a)anthracene	1019	13	1260	13.41	79.8	50-110	0				
Benzo(a)pyrene	1041	13	1260	0	82.6	50-110	0				
Benzo(b)fluoranthene	1069	13	1260	0	84.8	45-115	0				
Benzo(k)fluoranthene	1078	13	1260	0	85.5	45-115	0				
Chrysene	1037	13	1260	12.77	81.3	55-110	0				
Dibenzo(a,h)anthracene	846.8	13	1260	0	67.2	40-125	0				
Fluoranthene	1101	13	1260	11.5	86.4	55-115	0				
Indeno(1,2,3-cd)pyrene	885.8	13	1260	0	70.3	40-120	0				
Naphthalene	826	13	1260	0	65.5	40-105	0				
Pyrene	1045	13	1260	14.05	81.8	45-125	0				
Surr: 2-Fluorobiphenyl	1979	0	3150	0	62.8	12-100	0				
Surr: 4-Terphenyl-d14	2298	0	3150	0	72.9	25-137	0				
Surr: Nitrobenzene-d5	2184	0	3150	0	69.3	37-107	0				

MSD				Sample ID: 1508996-02B MSD			Units: µg/Kg		Analysis Date: 8/20/2015 08:28 PM		
Client ID:		Run ID: SVMS8_150820A		SeqNo: 3426935		Prep Date: 8/20/2015		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	873.6	13	1257	10.86	68.6	45-110	874.5	0.101	30		
Anthracene	1046	13	1257	0	83.2	55-105	1050	0.426	30		
Benzo(a)anthracene	1031	13	1257	13.41	80.9	50-110	1019	1.17	30		
Benzo(a)pyrene	1055	13	1257	0	83.9	50-110	1041	1.32	30		
Benzo(b)fluoranthene	1091	13	1257	0	86.8	45-115	1069	2.03	30		
Benzo(k)fluoranthene	1083	13	1257	0	86.1	45-115	1078	0.453	30		
Chrysene	1035	13	1257	12.77	81.3	55-110	1037	0.245	30		
Dibenzo(a,h)anthracene	856	13	1257	0	68.1	40-125	846.8	1.08	30		
Fluoranthene	1110	13	1257	11.5	87.4	55-115	1101	0.836	30		
Indeno(1,2,3-cd)pyrene	875.5	13	1257	0	69.6	40-120	885.8	1.17	30		
Naphthalene	835.3	13	1257	0	66.4	40-105	826	1.12	30		
Pyrene	1043	13	1257	14.05	81.8	45-125	1045	0.185	30		
Surr: 2-Fluorobiphenyl	1936	0	3143	0	61.6	12-100	1979	2.17	40		
Surr: 4-Terphenyl-d14	2282	0	3143	0	72.6	25-137	2298	0.685	40		
Surr: Nitrobenzene-d5	2168	0	3143	0	69	37-107	2184	0.737	40		

The following samples were analyzed in this batch:

15081030-01B	15081030-02B	15081030-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
 Work Order: 15081030
 Project: Caerus Garden Gulch 1 Soil Stockpile

QC BATCH REPORT

Batch ID: **75049** Instrument ID **VMS5** Method: **SW8260B**

MBLK		Sample ID: MBLK-75049-75049			Units: µg/Kg		Analysis Date: 8/20/2015 03:12 PM			
Client ID:		Run ID: VMS5_150820A			SeqNo: 3426688		Prep Date: 8/20/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Surr: 1,2-Dichloroethane-d4	1008	0	1000	0	101	70-130	0			
Surr: 4-Bromofluorobenzene	988.5	0	1000	0	98.8	70-130	0			
Surr: Dibromofluoromethane	1004	0	1000	0	100	70-130	0			
Surr: Toluene-d8	1020	0	1000	0	102	70-130	0			

LCS		Sample ID: LCS-75049-75049			Units: µg/Kg		Analysis Date: 8/20/2015 01:55 PM			
Client ID:		Run ID: VMS5_150820A			SeqNo: 3426687		Prep Date: 8/20/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	993	30	1000	0	99.3	75-125	0			
Surr: 1,2-Dichloroethane-d4	963.5	0	1000	0	96.4	70-130	0			
Surr: 4-Bromofluorobenzene	995.5	0	1000	0	99.6	70-130	0			
Surr: Dibromofluoromethane	999.5	0	1000	0	100	70-130	0			
Surr: Toluene-d8	1004	0	1000	0	100	70-130	0			

MS		Sample ID: 15081030-01A MS			Units: µg/Kg		Analysis Date: 8/20/2015 11:41 PM			
Client ID: West End of Stockpile		Run ID: VMS5_150820A			SeqNo: 3426784		Prep Date: 8/20/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	973	30	1000	0	97.3	75-125	0			
Surr: 1,2-Dichloroethane-d4	983	0	1000	0	98.3	70-130	0			
Surr: 4-Bromofluorobenzene	1031	0	1000	0	103	70-130	0			
Surr: Dibromofluoromethane	971.5	0	1000	0	97.2	70-130	0			
Surr: Toluene-d8	1010	0	1000	0	101	70-130	0			

MSD		Sample ID: 15081030-01A MSD			Units: µg/Kg		Analysis Date: 8/21/2015 12:07 PM			
Client ID: West End of Stockpile		Run ID: VMS5_150820A			SeqNo: 3426785		Prep Date: 8/20/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1011	30	1000	0	101	75-125	973	3.83	30	
Surr: 1,2-Dichloroethane-d4	982.5	0	1000	0	98.2	70-130	983	0.0509	30	
Surr: 4-Bromofluorobenzene	1009	0	1000	0	101	70-130	1031	2.16	30	
Surr: Dibromofluoromethane	959	0	1000	0	95.9	70-130	971.5	1.3	30	
Surr: Toluene-d8	993	0	1000	0	99.3	70-130	1010	1.7	30	

The following samples were analyzed in this batch:

15081030-01A	15081030-02A	15081030-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 15081030
Project: Caerus Garden Gulch 1 Soil Stockpile

QC BATCH REPORT

Batch ID: **75099** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP	Sample ID: 15081030-02C DUP		Units: mmhos/cm @25°		Analysis Date: 8/24/2015 02:15 PM					
Client ID: Middle of Stockpile	Run ID: WETCHEM_150824G		SeqNo: 3429231		Prep Date: 8/24/2015 DF: 10					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	11.45	0.050	0	0	0		10.48	8.85	50	

The following samples were analyzed in this batch:

15081030-01C	15081030-02C	15081030-03C
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 15081030
Project: Caerus Garden Gulch 1 Soil Stockpile

QC BATCH REPORT

Batch ID: **75107** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-75107-75107				Units: mg/Kg		Analysis Date: 8/21/2015 03:00 PM		
Client ID:		Run ID: WETCHEM_150821H		SeqNo: 3427785		Prep Date: 8/20/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 1.0

LCS		Sample ID: LCS-75107-75107				Units: mg/Kg		Analysis Date: 8/21/2015 03:00 PM		
Client ID:		Run ID: WETCHEM_150821H		SeqNo: 3427784		Prep Date: 8/20/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 5.2 1.0 5 0 104 80-120 0

MS		Sample ID: 1508869-05A MS				Units: mg/Kg		Analysis Date: 8/21/2015 03:00 PM		
Client ID:		Run ID: WETCHEM_150821H		SeqNo: 3427780		Prep Date: 8/20/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2.336 0.93 4.673 0.181 46.1 75-125 0 S

MS		Sample ID: 1508869-05A MSI				Units: mg/Kg		Analysis Date: 8/21/2015 03:00 PM		
Client ID:		Run ID: WETCHEM_150821H		SeqNo: 3427782		Prep Date: 8/20/2015		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2422 98 2587 0.181 93.6 75-125 0

MSD		Sample ID: 1508869-05A MSD				Units: mg/Kg		Analysis Date: 8/21/2015 03:00 PM		
Client ID:		Run ID: WETCHEM_150821H		SeqNo: 3427781		Prep Date: 8/20/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 3.366 0.99 4.95 0.181 64.3 75-125 2.336 36.1 20 SR

The following samples were analyzed in this batch:

15081030-01B	15081030-02B	15081030-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 15081030
Project: Caerus Garden Gulch 1 Soil Stockpile

QC BATCH REPORT

Batch ID: **75166** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-75166-75166				Units: s.u.		Analysis Date: 8/24/2015 01:15 PM		
Client ID:		Run ID: WETCHEM_150824I		SeqNo: 3429444		Prep Date: 8/24/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	3.97	0	4	0	99.2	90-110	0			

DUP		Sample ID: 15081016-01A DUP				Units: s.u.		Analysis Date: 8/24/2015 01:15 PM		
Client ID:		Run ID: WETCHEM_150824I		SeqNo: 3429447		Prep Date: 8/24/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.18	0	0	0	0	0-0	8.02	1.98	20	

DUP		Sample ID: 15081117-01A DUP				Units: s.u.		Analysis Date: 8/24/2015 01:15 PM		
Client ID:		Run ID: WETCHEM_150824I		SeqNo: 3429457		Prep Date: 8/24/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.25	0	0	0	0	0-0	8.23	0.243	20	

The following samples were analyzed in this batch:

15081030-01B	15081030-02B	15081030-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 15081030
Project: Caerus Garden Gulch 1 Soil Stockpile

QC BATCH REPORT

Batch ID: **R170085** Instrument ID **MOIST** Method: **E160.3M**

MBLK	Sample ID: WBLKS-R170085				Units: % of sample			Analysis Date: 8/20/2015 08:40 AM		
Client ID:	Run ID: MOIST_150820B			SeqNo: 3426878		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-R170085				Units: % of sample			Analysis Date: 8/20/2015 08:40 AM		
Client ID:	Run ID: MOIST_150820B			SeqNo: 3426876		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: 15081043-01A DUP				Units: % of sample			Analysis Date: 8/20/2015 08:40 AM		
Client ID:	Run ID: MOIST_150820B			SeqNo: 3426840		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 5.87 0.050 0 0 0 6.24 6.11 20

DUP	Sample ID: 1508996-03B DUP				Units: % of sample			Analysis Date: 8/20/2015 08:40 AM		
Client ID:	Run ID: MOIST_150820B			SeqNo: 3426851		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 34.77 0.050 0 0 0 35.53 2.16 20

The following samples were analyzed in this batch:

15081030-01B	15081030-02B	15081030-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.



ALS Laboratory Group

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

Chain-of-Custody

Form 202rll

WORKORDER #	15081030
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PROJECT NAME		Caerus Garden Gulch 1 Soil Stockpile	SAMPLER		Reed Wold			DATE		8/18/2015			PAGE		1 of 1		
PROJECT No.			SITE ID		Garden Gulch 1			TURNAROUND		5 day			DISPOSAL		By Lab or Return to Client		
COMPANY NAME		HRL Compliance	EDD FORMAT					Benzene/GRO									
SEND REPORT TO		Cassay Richardson Janicek	PURCHASE ORDER					DRO/PAH/ Metals (Table B10-1)									
ADDRESS		2385 F 1/2 Rd	BILL TO COMPANY		Caerus Piceanca, LLC			SAR/EC/pH									
CITY/STATE/ZIP		Grand Junction, CO 81505	INVOICE ATTN TO		Jake Janicek												
PHONE		970-243-3271	ADDRESS		120 N. Railroad, Suite D												
FAX		970-243-3280	CITY/STATE/ZIP		Parachute, CO 81635												
E-MAIL		Crichardson@hrlcomp.com Rwold@hrlcomp.com JJanicek@caerusoilandgas.com	PHONE		970-285-9806												
E-MAIL		Invoices@caerusoilandgas.com JJanicek@caerusoilandgas.com	FAX														
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC										
1	West End of stockpile	SO	8/18/2015	10:45	3	8		X	X	X							
2	Middle of stockpile	SO	8/18/2015	10:30	3	8		X	X	X							
3	East End of stockpile	SO	8/18/2015	10:15	3	8		X	X	X							

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

For metals or anions, please detail analytes below.

Comments: 2.4 °C	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forma)
	<input type="checkbox"/>	LEVEL IV (Std QC + forma + raw data)
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-6035		

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>Reed Wold</i>	Reed Wold	8/18/2015	12:40
RECEIVED BY	<i>M</i>	W.M	8-18-15	1:28
RELINQUISHED BY	<i>[Signature]</i>	LEWIS	8-18-15	2:50
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ORIGIN ID: RILA (816) 298-1033
NICK MARTINEZ
ALS ENVIRONMENTAL PARACHUTE
PARACHUTE SERVICE CENTER
127 EAST 1ST. ST
PARACHUTE, CO 81635
UNITED STATES US

SHIP DATE: 18AUG15
ACTWGT: 30.00 LB
CAD: 2284840/NET3870
DIMS: 21x12x12 IN

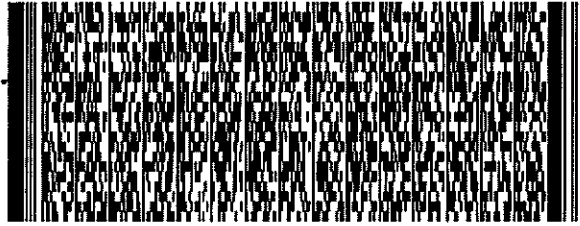
BILL SENDER

TO **SAMPLE RECEIVING**
ALS ENVIRONMENTAL HOLLAND LAB
3352 128TH AVE

HOLLAND MI 49424

(816) 399-8070 REF: 091815-1
INV:
PO: PARACHUTE DEPT:

539J1FECA9100



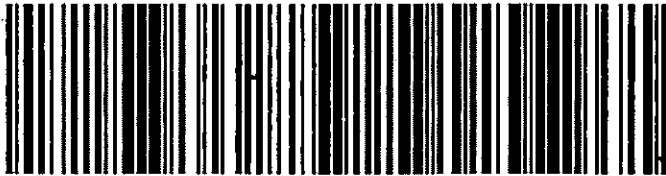
WED - 19 AUG 10:30A
PRIORITY OVERNIGHT

2 of 2
MP# 7743 4279 9957
0263
Mstr# 7743 1279 9876

0201

XX HLMA

MI-US **49424**
GRR



After printing this label:

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

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **19-Aug-15 21:50**

Work Order: **15081030**

Received by: **LA**

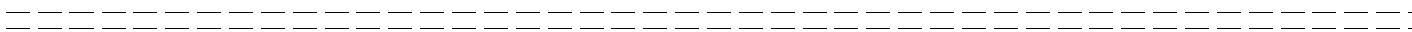
Checklist completed by *Diane Shaw* 20-Aug-15
eSignature Date

Reviewed by: *Lee Drndol* 20-Aug-15
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="2.6/2.6 c"/>		<input type="text" value="SR2"/>
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="8/20/2015 8:34:02 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:



30-Jul-2013

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

Re: **Caerus Chevron 41-8D 13-199 7/22/13**

Work Order: **1307799**

Dear Herman,

ALS Environmental received 3 samples on 23-Jul-2013 10:00 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 14.

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

Sincerely,

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

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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

Environmental ALS

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: Caerus Chevron 41-8D 13-199 7/22/13
Work Order: 1307799

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>
1307799-01	BKGD 1	Soil		7/22/2013 13:45	7/23/2013 10:00	<input type="checkbox"/>
1307799-02	BKGD 2	Soil		7/22/2013 13:35	7/23/2013 10:00	<input type="checkbox"/>
1307799-03	BKGD 3	Soil		7/22/2013 13:30	7/23/2013 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: Caerus Chevron 41-8D 13-199 7/22/13
WorkOrder: 1307799

**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
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: 30-Jul-13

Client: HRL Compliance Solutions
 Project: Caerus Chevron 41-8D 13-199 7/22/13
 Sample ID: BKGD 1
 Collection Date: 7/22/2013 01:45 PM

Work Order: 1307799
 Lab ID: 1307799-01
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 7/25/2013	Analyst: ML
Arsenic	39		9.2	mg/Kg-dry	5	7/27/2013 02:20 AM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep Date: 7/25/2013	Analyst: RH
Calcium	81		10	mg/L	20	7/26/2013 03:49 PM
Magnesium	28		4.0	mg/L	20	7/26/2013 03:49 PM
Sodium	120		4.0	mg/L	20	7/26/2013 03:49 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep Date: 7/25/2013	Analyst: RH
Sodium Adsorption Ratio	2.8		0.010	none	1	7/26/2013
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 7/25/2013	Analyst: JB
Electrical Conductivity @ Saturation	1.2		0.050	mmhos/cm @25	10	7/25/2013 03:10 PM
MOISTURE			A2540 G			Analyst: BD
Moisture	82		0.050	% of sample	1	7/23/2013 12:40 PM
PH			SW9045D		Prep Date: 7/23/2013	Analyst: JB
pH	9.1			s.u.	1	7/23/2013 11:00 AM

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

ALS Group USA, Corp

Date: 30-Jul-13

Client: HRL Compliance Solutions**Project:** Caerus Chevron 41-8D 13-199 7/22/13**Work Order:** 1307799**Sample ID:** BKGD 2**Lab ID:** 1307799-02**Collection Date:** 7/22/2013 01:35 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 7/25/2013	Analyst: ML
Arsenic	8.3		2.0	mg/Kg-dry	5	7/27/2013 02:44 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	7.3		0.050	% of sample	1	7/23/2013

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

ALS Group USA, Corp

Date: 30-Jul-13

Client: HRL Compliance Solutions**Project:** Caerus Chevron 41-8D 13-199 7/22/13**Work Order:** 1307799**Sample ID:** BKGD 3**Lab ID:** 1307799-03**Collection Date:** 7/22/2013 01:30 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 7/25/2013	Analyst: ML
Arsenic	8.6		1.8	mg/Kg-dry	5	7/27/2013 02:50 AM
MOISTURE			A2540 G			Analyst: BD
Moisture	5.2		0.050	% of sample	1	7/23/2013

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

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1307799

Project: Caerus Chevron 41-8D 13-199 7/22/13

Batch ID: **50013** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK	Sample ID: MBLK-50013-50013				Units: mg/Kg			Analysis Date: 7/26/2013 02:01 PM		
Client ID:	Run ID: ICPMS1_130726A			SeqNo: 2392468		Prep Date: 7/25/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.03916	0.25								J

LCS	Sample ID: LCS-50013-50013				Units: mg/Kg			Analysis Date: 7/26/2013 02:07 PM		
Client ID:	Run ID: ICPMS1_130726A			SeqNo: 2392469		Prep Date: 7/25/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.799	0.25	5	0	96	80-120	0			

MS	Sample ID: 1307769-02BMS				Units: mg/Kg			Analysis Date: 7/26/2013 02:19 PM		
Client ID:	Run ID: ICPMS1_130726A			SeqNo: 2392471		Prep Date: 7/25/2013		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.8	1.9	7.418	5.276	101	75-125	0			

MSD	Sample ID: 1307769-02BMSD				Units: mg/Kg			Analysis Date: 7/26/2013 02:25 PM		
Client ID:	Run ID: ICPMS1_130726A			SeqNo: 2392472		Prep Date: 7/25/2013		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.82	1.9	7.645	5.276	112	75-125	12.8	7.68	25	

The following samples were analyzed in this batch: 1307799-01A 1307799-02A 1307799-03A

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

Client: HRL Compliance Solutions
Work Order: 1307799
Project: Caerus Chevron 41-8D 13-199 7/22/13

QC BATCH REPORT

Batch ID: **49915** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP	Sample ID: 1307634-01B DUP	Units: mmhos/cm @25°C		Analysis Date: 7/25/2013 03:10 PM						
Client ID:	Run ID: WETCHEM_130725J	SeqNo: 2390794	Prep Date: 7/25/2013	DF: 10						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.583	0.050	0	0	0		1.847	15.4	50	

The following samples were analyzed in this batch:

1307799-01B

Client: HRL Compliance Solutions
Work Order: 1307799
Project: Caerus Chevron 41-8D 13-199 7/22/13

QC BATCH REPORT

Batch ID: **49934** Instrument ID **WETCHEM** Method: **SW9045D**

LCS	Sample ID: LCS-49934-49934		Units: s.u.		Analysis Date: 7/23/2013 11:00 AM					
Client ID:	Run ID: WETCHEM_130723L		SeqNo: 2388161		Prep Date: 7/23/2013 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.53 0 4.4 0 103 90-110 0

DUP	Sample ID: 1307798-01B DUP		Units: s.u.		Analysis Date: 7/23/2013 11:00 AM					
Client ID:	Run ID: WETCHEM_130723L		SeqNo: 2388163		Prep Date: 7/23/2013 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 9.13 0 0 0 0 0-0 9.13 0 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
 Work Order: 1307799
 Project: Caerus Chevron 41-8D 13-199 7/22/13

QC BATCH REPORT

Batch ID: **R124049** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS-R124049		Units: % of sample				Analysis Date: 7/23/2013 12:40 PM			
Client ID:	Run ID: MOIST_130723A		SeqNo: 2388372		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-R124049		Units: % of sample				Analysis Date: 7/23/2013 12:40 PM			
Client ID:	Run ID: MOIST_130723A		SeqNo: 2388371		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: 1307776-06A DUP		Units: % of sample				Analysis Date: 7/23/2013 12:40 PM			
Client ID:	Run ID: MOIST_130723A		SeqNo: 2388357		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 48.63 0.050 0 0 0 0-0 49.35 1.47 20

DUP	Sample ID: 1307798-01B DUP		Units: % of sample				Analysis Date: 7/23/2013 12:40 PM			
Client ID:	Run ID: MOIST_130723A		SeqNo: 2388365		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 19.99 0.050 0 0 0 0-0 20.28 1.44 20

The following samples were analyzed in this batch: 1307799-01A

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

Client: HRL Compliance Solutions
 Work Order: 1307799
 Project: Caerus Chevron 41-8D 13-199 7/22/13

QC BATCH REPORT

Batch ID: **R124058** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R124058				Units: % of sample			Analysis Date: 7/23/2013		
Client ID:		Run ID: MOIST_130723C				SeqNo: 2388576		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-R124058				Units: % of sample			Analysis Date: 7/23/2013		
Client ID:		Run ID: MOIST_130723C				SeqNo: 2388574		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: 1307794-01B DUP				Units: % of sample			Analysis Date: 7/23/2013		
Client ID:		Run ID: MOIST_130723C				SeqNo: 2388528		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 15.1 0.050 0 0 0 0-0 15.45 2.29 20

DUP		Sample ID: 1307801-04A DUP				Units: % of sample			Analysis Date: 7/23/2013		
Client ID:		Run ID: MOIST_130723C				SeqNo: 2388551		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 32.26 0.050 0 0 0 0-0 31.81 1.4 20

The following samples were analyzed in this batch: 1307799-02A 1307799-03A

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



ALS Laboratory Group

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

Chain-of-Custody

Form 202r8

WORKORDER #	1307799
PAGE	1 of 1

PROJECT NAME	CAERUS CHEVRON 41-8D	SAMPLER	Casey Richardson				DATE	7-22-13				TURNAROUND	5 DAY				DISPOSAL	Lab or Return to Client			
PROJECT No.	13-199	SITE ID																			
		EDD FORMAT																			
		PURCHASE ORDER																			
COMPANY NAME	HCSI	BILL TO COMPANY	PDC Energy																		
SEND REPORT TO	Herman Lucero	INVOICE ATTN TO	Ed Winters																		
ADDRESS	2385 F 1/2 Road	ADDRESS	120 Railroad Ave. Suite D																		
CITY / STATE / ZIP	Grand Junction, CO. 81505	CITY / STATE / ZIP	Parachute, CO 81635																		
PHONE	970-243-3271	PHONE	970-285-9606																		
FAX	970-243-3280	FAX																			
E-MAIL	hlucero@hrlcomp.com	E-MAIL	ewinters@petd.com																		
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	SAR/EC/PAH	ARSENIC												
1	BKGD 1	SOIL	7-22-13	1345	2	8		X	X												
2	BKGD 2	SOIL	7-22-13	1335	1	8			X												
3	BKGD 3	SOIL	7-22-13	1330	1	8			X												

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

For metals or anions, please detail analytes below.

Comments: 5.02	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forms)
	<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)
	<input type="checkbox"/>	
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035		

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Casey Richardson	7-22-13	1625
RECEIVED BY		Colby Koerner	7/22/13	1625
RELINQUISHED BY		Colby Koerner	7/22/13	1625
RECEIVED BY	Fed Ex			
RELINQUISHED BY				
RECEIVED BY		Diane F Shaw	7/23/13	1000

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **23-Jul-13 10:00**

Work Order: **1307799**

Received by: **DS**

Checklist completed by *Diane Shaw* 23-Jul-13
eSignature Date

Reviewed by: *Ann Preston* 28-Jul-13
eSignature Date

Matrices: Soil
 Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

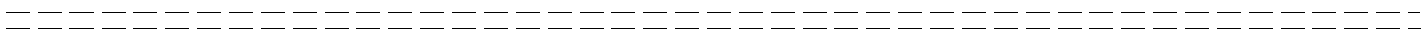
Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

From: (970) 424-4749
Lab Hub, LLC

Origin ID: RILA



Ship Date: 22JUL13
ActWgt: 80.0 LB
CAD: 103923490/INET3370

Dims: 25 X 14 X 15 IN

127 E First Street
PARACHUTE, CO 81635



J13111302120326

Delivery Address Bar Code



SHIP TO: (616) 399-6070

BILL RECIPIENT

Sample receiving
ALS Holland
3352 128TH AVE

HOLLAND, MI 49424

Ref # 1001-072213-3
Invoice #
PO #
Dept #

TUE - 23 JUL 3:00P
STANDARD OVERNIGHT

TRK# 7962 8879 8431

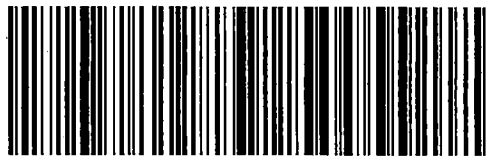
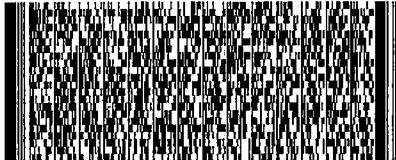
0201

49424

MI-US

GRR

XX GRRR



518G1/AA04/53AB

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