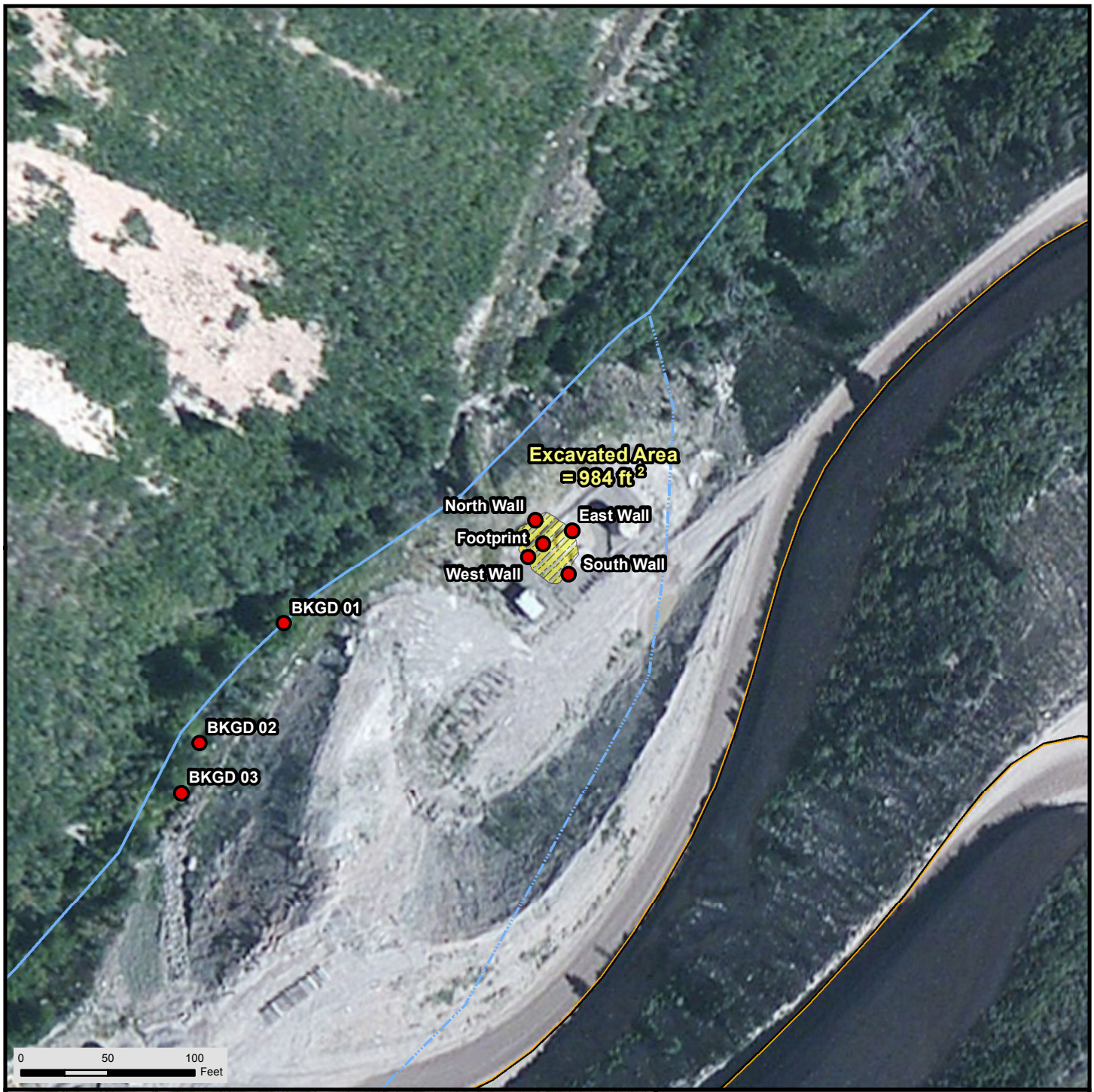
Garden Gulch 5 (Chevron/Texaco 33C-12D) (Location ID 335776)
Partially Buried Vessel Removal (Non-Facility ID 435780)
Form 4 (Notice of Completion)
Narrative Attachment
Document Date – 3/17/2015

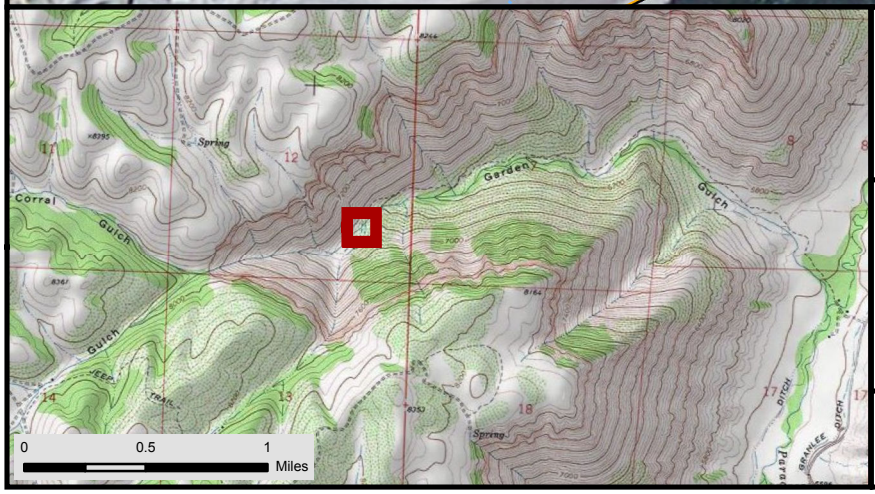
This Form 4 (Notice of Completion) was prepared for the purpose of describing completed work associated with the assessment of soil during the removal of a partially buried vessel (PBV) (Non-Facility ID 435780) at the Garden Gulch 5 (Chevron/Texaco 33C-12D) (Location ID 335776) in the Caerus Piceance, LLC (Caerus) area of operations. This assessment was conducted using procedures approved under COGCC Remediation #8164. A Sample Location Map is included as an attachment to this form.

Upon removing the PBV from the ground, field screen readings from around and below the tank indicated an absence of measureable hydrocarbon levels. Therefore, no soil was removed from beneath the PBV. The void left by the tank removal was backfilled.

On September 3, 2014, confirmation soil samples were collected from the soil around and beneath the removed PBV (North Wall, 5', Footprint, 10', West Wall, 5', East Wall, 5', and South Wall, 5'). 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, were within background concentrations, or were within the arsenic range allowed by the COGCC (1.25x background concentration). Background samples were collected from an undisturbed area southwest of the pad surface. Sample locations are depicted on the attached Sample Location Map and laboratory analytical results are summarized in the attached analytical table. Laboratory analytical reports are included as an attachment.

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





Sample Location Map: Garden Gulch 5

39.533181 -108.163153
Section 12, Township 6 South, Range 97 West

Sample Location
Excavated Area

PLSS
Township
Section

Transportation
CO Highways
County Roads
Local Streets
WPX Access

Hydrography
Ditch
Intermittent Stream
Perennial Stream
Waterbody
Watershed

HCSI Environmental Consultants
HRL Compliance Solutions, Inc.

N

Author: B. Hall
Revision: 1
Date: 10/3/2014

T:\Client_Specific\2014\Caerus\Spills\Garden Gulch 5\Garden Gulch 5 Sample Location Map 10-3-14.mxd

Caerus Piceance LLC
Garden Gulch 5 Partially Buried Vault Removal
Soil Sample Confirmation and Background Analytical Results

			Sample ID							
COGCC Table 910-1 Analytical Suite	**Table 910-1 Standard**	**Units**	**North Wall, 5'**	**South Wall, 5'**	**East Wall, 5'**	**West Wall, 5'**	**Footprint, 10'**	**BKGD 01**	**BKGD 02**	**BKGD 03**
Sample Date			**9/3/2014**	**9/3/2014**	**9/3/2014**	**9/3/2014**	**9/3/2014**	**9/24/2014**	**9/24/2014**	**9/24/2014**
Organics										
TEPH (DRO)		**mg/kg**	85	90	130	130	87	NA	NA	NA
TVPH (GRO)		**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
TPH	**500**	**mg/kg**	85	90	130	130	87	NA	NA	NA
BENZENE	**0.17**	**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
TOLUENE	**85**	**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
ETHYLBENZENE	**100**	**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
XYLENE TOTAL	**175**	**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
ACENAPHTHENE	**1,000**	**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
ANTHRACENE	**1,000**	**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
BENZO(A)ANTRHACENE	**0.22**	**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
BENZO(A)PYRENE	**0.022**	**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
BENZO(B)FLUORANTHENE	**0.22**	**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
BENZO(K)FLUORANTHENE	**2.2**	**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
CHRYSENE	**22**	**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
DIBENZO(A,H)ANTHRANCENE	**0.022**	**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
FLUORANTHENE	**1,000**	**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
FLUORENE	**1,000**	**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	**0.22**	**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
NAPHTHALENE	**23**	**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
PYRENE	**1,000**	**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
Metals										
MERCURY	**23**	**mg/kg**	0.025	0.028	0.023	0.028	0.034	NA	NA	NA
ARSENIC	**0.39**	**mg/kg**	24	22	23	19	27	24	16	21
BARIUM	**15,000**	**mg/kg**	350	390	500	440	360	NA	NA	NA
CADMIUM	**70**	**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
CHROMIUM (III)	**120,000**	**mg/kg**	21	22	23	22	26	NA	NA	NA
CHROMIUM (IV)	**23**	**mg/kg**	ND	ND	ND	1.2	ND	NA	NA	NA
COPPER	**3,100**	**mg/kg**	22	24	29	21	25	NA	NA	NA
LEAD	**400**	**mg/kg**	16	16	19	15	18	NA	NA	NA
NICKEL	**1,600**	**mg/kg**	18	19	19	17	21	NA	NA	NA
SELENIUM	**390**	**mg/kg**	ND	ND	2.1	ND	ND	NA	NA	NA
SILVER	**390**	**mg/kg**	ND	ND	ND	ND	ND	NA	NA	NA
ZINC	**23,000**	**mg/kg**	56	63	57	53	65	NA	NA	NA
Inorganics										
Sodium Adsorption Ratio	**<12**	**unitless**	0.70	0.51	0.59	0.48	0.71	NA	NA	0.49
Electrical Conductivity	**<4mmhos/cm or 2x background**	**mmhos/cm**	0.92	0.90	0.83	0.83	1.3	NA	NA	2.4
pH	**6 to 9**	**SU**	7.7	7.8	8.1	8.0	8.0	NA	NA	7.8

Notes:

highlight indicates reading above COGCC Table 910-1 standards

ND - non detect

NA - not analyzed

SU - standard unit

mg/kg - milligram per kilogram

mmhos/cm - millimhos per centimeter

TEPH - total petroleum hydrocarbons - Diesel range organics

TVPH - total petroleum hydrocarbons - gasoline range organics

TPH - total petroleum hydrocarbons (TEPH and TVPH combined)

COGCC - Colorado Oil and Gas Conservation Commission

15-Sep-2014

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

Re: **Caerus Garden Gulch 5 PBV Removal 9.3.14** Work Order: **1409213**

Dear Casey,

ALS Environmental received 5 samples on 05-Sep-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 34.

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

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN 532786

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

ALS Group USA, Corp

Date: 15-Sep-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14
Work Order: **1409213**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1409213-01	North Wall, 5'	Soil		9/3/2014 10:55	9/5/2014 09:30	☐
1409213-02	South Wall, 5'	Soil		9/3/2014 13:04	9/5/2014 09:30	☐
1409213-03	East Wall, 5'	Soil		9/3/2014 09:30	9/5/2014 09:30	☐
1409213-04	West Wall, 5'	Soil		9/3/2014 13:06	9/5/2014 09:30	☐
1409213-05	Footprint, 10'	Soil		9/3/2014 13:00	9/5/2014 09:30	☐

ALS Group USA, Corp

Date: 15-Sep-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14
Work Order: 1409213

Case Narrative

Batch 62550 MS/MSD data for PAHs is not related to this project's samples. No data requires qualification.

Batch 62551 MS/MSD data for DRO is not related to this project's samples. No data requires qualification.

Batch 62575 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 62642 sample East Wall, 5' MS/MSD recoveries and RPD for Hexavalent Chromium were outside control limits. The corresponding result in the parent sample may be biased low for Hexavalent Chromium.

Qualifier	Description
*	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

Acronym	Description
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

Units Reported	Description
% 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: *15-Sep-14*

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14 **Work Order:** 1409213
Sample ID: North Wall, 5' **Lab ID:** 1409213-01
Collection Date: 9/3/2014 10:55 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3541 / 9/9/14	Analyst: **IT**
DRO (C10-C28)	**85**		**5.0**	**mg/Kg-dry**	1	9/13/2014 03:00 AM
Surr: 4-Terphenyl-d14	*80.0*		*39-133*	*%REC*	1	9/13/2014 03:00 AM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**		Prep: SW5035 / 9/5/14	Analyst: **IT**
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	9/5/2014 10:31 PM
Surr: Toluene-d8	*116*		*50-150*	*%REC*	1	9/5/2014 10:31 PM
MERCURY BY CVAA			**SW7471**		Prep: SW7471 / 9/12/14	Analyst: **LR**
Mercury	**0.025**		**0.018**	**mg/Kg-dry**	1	9/12/2014 04:13 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 9/9/14	Analyst: **JEC**
Calcium	**110**		**5.0**	**mg/L**	10	9/9/2014 04:57 PM
Magnesium	**41**		**2.0**	**mg/L**	10	9/9/2014 04:57 PM
Sodium	**34**		**2.0**	**mg/L**	10	9/9/2014 04:57 PM
METALS BY ICP-MS			**SW6020A**		Prep: SW3050B / 9/9/14	Analyst: **ML**
Arsenic	**24**		**2.0**	**mg/Kg-dry**	5	9/9/2014 08:26 PM
Barium	**350**		**2.0**	**mg/Kg-dry**	5	9/9/2014 08:26 PM
Cadmium	ND		0.80	mg/Kg-dry	5	9/9/2014 08:26 PM
Chromium	**21**		**2.0**	**mg/Kg-dry**	5	9/9/2014 08:26 PM
Copper	**22**		**2.0**	**mg/Kg-dry**	5	9/9/2014 08:26 PM
Lead	**16**		**2.0**	**mg/Kg-dry**	5	9/9/2014 08:26 PM
Nickel	**18**		**2.0**	**mg/Kg-dry**	5	9/9/2014 08:26 PM
Selenium	ND		2.0	mg/Kg-dry	5	9/9/2014 08:26 PM
Silver	ND		2.0	mg/Kg-dry	5	9/9/2014 08:26 PM
Zinc	**56**		**4.0**	**mg/Kg-dry**	5	9/9/2014 08:26 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHOD**		Prep: USDA Method 20B / 9/9/14	Analyst: **JEC**
Sodium Adsorption Ratio	**0.70**		**0.010**	**none**	1	9/9/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 9/9/14	Analyst: **MK**
Acenaphthene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:31 PM
Acenaphthylene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:31 PM
Anthracene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:31 PM
Benzo(a)anthracene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:31 PM
Benzo(a)pyrene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:31 PM
Benzo(b)fluoranthene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:31 PM
Benzo(g,h,i)perylene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:31 PM
Benzo(k)fluoranthene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:31 PM
Chrysene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:31 PM

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

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14 **Work Order:** 1409213
Sample ID: North Wall, 5' **Lab ID:** 1409213-01
Collection Date: 9/3/2014 10:55 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:31 PM
Fluoranthene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:31 PM
Fluorene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:31 PM
Indeno(1,2,3-cd)pyrene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:31 PM
Naphthalene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:31 PM
Pyrene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:31 PM
Surr: 2-Fluorobiphenyl	*62.0*		*12-100*	*%REC*	1	9/10/2014 06:31 PM
Surr: 4-Terphenyl-d14	*91.9*		*25-137*	*%REC*	1	9/10/2014 06:31 PM
Surr: Nitrobenzene-d5	*53.1*		*37-107*	*%REC*	1	9/10/2014 06:31 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 9/5/14	Analyst: **BG**
Benzene	ND		36	µg/Kg-dry	1	9/12/2014 12:43 PM
Ethylbenzene	ND		36	µg/Kg-dry	1	9/12/2014 12:43 PM
m,p-Xylene	ND		73	µg/Kg-dry	1	9/12/2014 12:43 PM
o-Xylene	ND		36	µg/Kg-dry	1	9/12/2014 12:43 PM
Toluene	ND		36	µg/Kg-dry	1	9/12/2014 12:43 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	9/12/2014 12:43 PM
Surr: 1,2-Dichloroethane-d4	*94.0*		*70-130*	*%REC*	1	9/12/2014 12:43 PM
Surr: 4-Bromofluorobenzene	*99.6*		*70-130*	*%REC*	1	9/12/2014 12:43 PM
Surr: Dibromofluoromethane	*99.3*		*70-130*	*%REC*	1	9/12/2014 12:43 PM
Surr: Toluene-d8	*94.3*		*70-130*	*%REC*	1	9/12/2014 12:43 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHOD**		Prep: USDA Method 20B / 9/9/14	Analyst: **MELB**
Electrical Conductivity @ Saturation	**0.92**		**0.050**	**mmhos/cm @25**	10	9/9/2014 02:30 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**21**		**0.61**	**mg/Kg-dry**	1	9/11/2014 02:00 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 9/8/14	Analyst: **MB**
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	9/10/2014 12:00 PM
MOISTURE			**A2540 G**			Analyst: **RLM**
Moisture	**17**		**0.050**	**% of sample**	1	9/8/2014 05:26 PM
PH			**SW9045D**		Prep: EXTRACT / 9/5/14	Analyst: **JB**
pH	**7.7**			**s.u.**	1	9/8/2014 11:00 AM

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

ALS Group USA, Corp

Date: *15-Sep-14*

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14 **Work Order:** 1409213
Sample ID: South Wall, 5' **Lab ID:** 1409213-02
Collection Date: 9/3/2014 01:04 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3541 / 9/9/14	Analyst: **IT**
DRO (C10-C28)	**90**		**4.9**	**mg/Kg-dry**	1	9/13/2014 03:27 AM
Surr: 4-Terphenyl-d14	*77.3*		*39-133*	*%REC*	1	9/13/2014 03:27 AM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**		Prep: SW5035 / 9/8/14	Analyst: **IT**
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	9/8/2014 07:23 PM
Surr: Toluene-d8	*115*		*50-150*	*%REC*	1	9/8/2014 07:23 PM
MERCURY BY CVAA			**SW7471**		Prep: SW7471 / 9/12/14	Analyst: **LR**
Mercury	**0.028**		**0.017**	**mg/Kg-dry**	1	9/12/2014 04:16 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 9/9/14	Analyst: **JEC**
Calcium	**110**		**5.0**	**mg/L**	10	9/9/2014 05:02 PM
Magnesium	**32**		**2.0**	**mg/L**	10	9/9/2014 05:02 PM
Sodium	**23**		**2.0**	**mg/L**	10	9/9/2014 05:02 PM
METALS BY ICP-MS			**SW6020A**		Prep: SW3050B / 9/9/14	Analyst: **ML**
Arsenic	**22**		**2.2**	**mg/Kg-dry**	5	9/9/2014 08:32 PM
Barium	**390**		**2.2**	**mg/Kg-dry**	5	9/9/2014 08:32 PM
Cadmium	ND		0.88	mg/Kg-dry	5	9/9/2014 08:32 PM
Chromium	**22**		**2.2**	**mg/Kg-dry**	5	9/9/2014 08:32 PM
Copper	**24**		**2.2**	**mg/Kg-dry**	5	9/9/2014 08:32 PM
Lead	**16**		**2.2**	**mg/Kg-dry**	5	9/9/2014 08:32 PM
Nickel	**19**		**2.2**	**mg/Kg-dry**	5	9/9/2014 08:32 PM
Selenium	ND		2.2	mg/Kg-dry	5	9/9/2014 08:32 PM
Silver	ND		2.2	mg/Kg-dry	5	9/9/2014 08:32 PM
Zinc	**63**		**4.4**	**mg/Kg-dry**	5	9/9/2014 08:32 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHOD**		Prep: USDA Method 20B / 9/9/14	Analyst: **JEC**
Sodium Adsorption Ratio	**0.51**		**0.010**	**none**	1	9/9/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 9/9/14	Analyst: **MK**
Acenaphthene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:51 PM
Acenaphthylene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:51 PM
Anthracene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:51 PM
Benzo(a)anthracene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:51 PM
Benzo(a)pyrene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:51 PM
Benzo(b)fluoranthene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:51 PM
Benzo(g,h,i)perylene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:51 PM
Benzo(k)fluoranthene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:51 PM
Chrysene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:51 PM

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

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14 **Work Order:** 1409213
Sample ID: South Wall, 5' **Lab ID:** 1409213-02
Collection Date: 9/3/2014 01:04 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:51 PM
Fluoranthene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:51 PM
Fluorene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:51 PM
Indeno(1,2,3-cd)pyrene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:51 PM
Naphthalene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:51 PM
Pyrene	ND		7.9	µg/Kg-dry	1	9/10/2014 06:51 PM
Surr: 2-Fluorobiphenyl	*63.4*		*12-100*	*%REC*	1	9/10/2014 06:51 PM
Surr: 4-Terphenyl-d14	*96.9*		*25-137*	*%REC*	1	9/10/2014 06:51 PM
Surr: Nitrobenzene-d5	*53.0*		*37-107*	*%REC*	1	9/10/2014 06:51 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 9/8/14	Analyst: **BG**
Benzene	ND		72	µg/Kg-dry	1	9/12/2014 01:09 AM
Ethylbenzene	ND		72	µg/Kg-dry	1	9/12/2014 01:09 AM
m,p-Xylene	ND		140	µg/Kg-dry	1	9/12/2014 01:09 AM
o-Xylene	ND		72	µg/Kg-dry	1	9/12/2014 01:09 AM
Toluene	ND		72	µg/Kg-dry	1	9/12/2014 01:09 AM
Xylenes, Total	ND		220	µg/Kg-dry	1	9/12/2014 01:09 AM
Surr: 1,2-Dichloroethane-d4	*96.1*		*70-130*	*%REC*	1	9/12/2014 01:09 AM
Surr: 4-Bromofluorobenzene	*98.0*		*70-130*	*%REC*	1	9/12/2014 01:09 AM
Surr: Dibromofluoromethane	*99.2*		*70-130*	*%REC*	1	9/12/2014 01:09 AM
Surr: Toluene-d8	*94.1*		*70-130*	*%REC*	1	9/12/2014 01:09 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHOD**		Prep: USDA Method 20B / 9/9/14	Analyst: **MELB**
Electrical Conductivity @ Saturation	**0.90**		**0.050**	**mmhos/cm @25**	10	9/9/2014 02:30 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**22**		**0.60**	**mg/Kg-dry**	1	9/11/2014 02:00 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 9/8/14	Analyst: **MB**
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	9/10/2014 12:00 PM
MOISTURE			**A2540 G**			Analyst: **RLM**
Moisture	**17**		**0.050**	**% of sample**	1	9/8/2014 05:26 PM
PH			**SW9045D**		Prep: EXTRACT / 9/5/14	Analyst: **JB**
pH	**7.8**			**s.u.**	1	9/8/2014 11:00 AM

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

ALS Group USA, Corp

Date: *15-Sep-14*

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14 **Work Order:** 1409213
Sample ID: East Wall, 5' **Lab ID:** 1409213-03
Collection Date: 9/3/2014 09:30 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3541 / 9/9/14	Analyst: **IT**
DRO (C10-C28)	**130**		**4.8**	**mg/Kg-dry**	1	9/13/2014 03:53 AM
Surr: 4-Terphenyl-d14	*98.4*		*39-133*	*%REC*	1	9/13/2014 03:53 AM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**		Prep: SW5035 / 9/8/14	Analyst: **IT**
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	9/8/2014 07:48 PM
Surr: Toluene-d8	*112*		*50-150*	*%REC*	1	9/8/2014 07:48 PM
MERCURY BY CVAA			**SW7471**		Prep: SW7471 / 9/12/14	Analyst: **LR**
Mercury	**0.023**		**0.016**	**mg/Kg-dry**	1	9/12/2014 04:18 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 9/9/14	Analyst: **JEC**
Calcium	**100**		**5.0**	**mg/L**	10	9/9/2014 05:22 PM
Magnesium	**34**		**2.0**	**mg/L**	10	9/9/2014 05:22 PM
Sodium	**27**		**2.0**	**mg/L**	10	9/9/2014 05:22 PM
METALS BY ICP-MS			**SW6020A**		Prep: SW3050B / 9/9/14	Analyst: **ML**
Arsenic	**23**		**2.0**	**mg/Kg-dry**	5	9/9/2014 08:38 PM
Barium	**500**		**2.0**	**mg/Kg-dry**	5	9/9/2014 08:38 PM
Cadmium	ND		0.81	mg/Kg-dry	5	9/9/2014 08:38 PM
Chromium	**23**		**2.0**	**mg/Kg-dry**	5	9/9/2014 08:38 PM
Copper	**29**		**2.0**	**mg/Kg-dry**	5	9/9/2014 08:38 PM
Lead	**19**		**2.0**	**mg/Kg-dry**	5	9/9/2014 08:38 PM
Nickel	**19**		**2.0**	**mg/Kg-dry**	5	9/9/2014 08:38 PM
Selenium	**2.1**		**2.0**	**mg/Kg-dry**	5	9/9/2014 08:38 PM
Silver	ND		2.0	mg/Kg-dry	5	9/9/2014 08:38 PM
Zinc	**57**		**4.1**	**mg/Kg-dry**	5	9/9/2014 08:38 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHOD**		Prep: USDA Method 20B / 9/9/14	Analyst: **JEC**
Sodium Adsorption Ratio	**0.59**		**0.010**	**none**	1	9/9/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 9/9/14	Analyst: **MK**
Acenaphthene	ND		7.7	µg/Kg-dry	1	9/10/2014 07:12 PM
Acenaphthylene	ND		7.7	µg/Kg-dry	1	9/10/2014 07:12 PM
Anthracene	ND		7.7	µg/Kg-dry	1	9/10/2014 07:12 PM
Benzo(a)anthracene	ND		7.7	µg/Kg-dry	1	9/10/2014 07:12 PM
Benzo(a)pyrene	ND		7.7	µg/Kg-dry	1	9/10/2014 07:12 PM
Benzo(b)fluoranthene	ND		7.7	µg/Kg-dry	1	9/10/2014 07:12 PM
Benzo(g,h,i)perylene	ND		7.7	µg/Kg-dry	1	9/10/2014 07:12 PM
Benzo(k)fluoranthene	ND		7.7	µg/Kg-dry	1	9/10/2014 07:12 PM
Chrysene	ND		7.7	µg/Kg-dry	1	9/10/2014 07:12 PM

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

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14 **Work Order:** 1409213
Sample ID: East Wall, 5' **Lab ID:** 1409213-03
Collection Date: 9/3/2014 09:30 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.7	µg/Kg-dry	1	9/10/2014 07:12 PM
Fluoranthene	ND		7.7	µg/Kg-dry	1	9/10/2014 07:12 PM
Fluorene	ND		7.7	µg/Kg-dry	1	9/10/2014 07:12 PM
Indeno(1,2,3-cd)pyrene	ND		7.7	µg/Kg-dry	1	9/10/2014 07:12 PM
Naphthalene	ND		7.7	µg/Kg-dry	1	9/10/2014 07:12 PM
Pyrene	ND		7.7	µg/Kg-dry	1	9/10/2014 07:12 PM
Surr: 2-Fluorobiphenyl	*69.3*		*12-100*	*%REC*	1	9/10/2014 07:12 PM
Surr: 4-Terphenyl-d14	*108*		*25-137*	*%REC*	1	9/10/2014 07:12 PM
Surr: Nitrobenzene-d5	*58.1*		*37-107*	*%REC*	1	9/10/2014 07:12 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 9/8/14	Analyst: **BG**
Benzene	ND		35	µg/Kg-dry	1	9/12/2014 01:35 AM
Ethylbenzene	ND		35	µg/Kg-dry	1	9/12/2014 01:35 AM
m,p-Xylene	ND		70	µg/Kg-dry	1	9/12/2014 01:35 AM
o-Xylene	ND		35	µg/Kg-dry	1	9/12/2014 01:35 AM
Toluene	ND		35	µg/Kg-dry	1	9/12/2014 01:35 AM
Xylenes, Total	ND		100	µg/Kg-dry	1	9/12/2014 01:35 AM
Surr: 1,2-Dichloroethane-d4	*93.8*		*70-130*	*%REC*	1	9/12/2014 01:35 AM
Surr: 4-Bromofluorobenzene	*98.8*		*70-130*	*%REC*	1	9/12/2014 01:35 AM
Surr: Dibromofluoromethane	*97.4*		*70-130*	*%REC*	1	9/12/2014 01:35 AM
Surr: Toluene-d8	*94.0*		*70-130*	*%REC*	1	9/12/2014 01:35 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHOD**		Prep: USDA Method 20B / 9/9/14	Analyst: **MELB**
Electrical Conductivity @ Saturation	**0.83**		**0.25**	**mmhos/cm @25**	50	9/9/2014 02:30 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**23**		**0.58**	**mg/Kg-dry**	1	9/11/2014 02:00 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 9/8/14	Analyst: **MB**
Chromium, Hexavalent	ND		0.57	mg/Kg-dry	1	9/10/2014 12:00 PM
MOISTURE			**A2540 G**			Analyst: **RLM**
Moisture	**14**		**0.050**	**% of sample**	1	9/8/2014 05:26 PM
PH			**SW9045D**		Prep: EXTRACT / 9/5/14	Analyst: **JB**
pH	**8.1**			**s.u.**	1	9/8/2014 11:00 AM

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

ALS Group USA, Corp

Date: *15-Sep-14*

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14 **Work Order:** 1409213
Sample ID: West Wall, 5' **Lab ID:** 1409213-04
Collection Date: 9/3/2014 01:06 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3541 / 9/9/14	Analyst: **IT**
DRO (C10-C28)	**130**		**4.8**	**mg/Kg-dry**	1	9/13/2014 04:20 AM
Surr: 4-Terphenyl-d14	*99.3*		*39-133*	*%REC*	1	9/13/2014 04:20 AM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**		Prep: SW5035 / 9/8/14	Analyst: **IT**
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	9/8/2014 08:14 PM
Surr: Toluene-d8	*111*		*50-150*	*%REC*	1	9/8/2014 08:14 PM
MERCURY BY CVAA			**SW7471**		Prep: SW7471 / 9/12/14	Analyst: **LR**
Mercury	**0.028**		**0.017**	**mg/Kg-dry**	1	9/12/2014 04:20 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 9/9/14	Analyst: **JEC**
Calcium	**100**		**5.0**	**mg/L**	10	9/9/2014 05:27 PM
Magnesium	**40**		**2.0**	**mg/L**	10	9/9/2014 05:27 PM
Sodium	**23**		**2.0**	**mg/L**	10	9/9/2014 05:27 PM
METALS BY ICP-MS			**SW6020A**		Prep: SW3050B / 9/9/14	Analyst: **ML**
Arsenic	**19**		**2.2**	**mg/Kg-dry**	5	9/9/2014 08:44 PM
Barium	**440**		**2.2**	**mg/Kg-dry**	5	9/9/2014 08:44 PM
Cadmium	ND		0.87	mg/Kg-dry	5	9/9/2014 08:44 PM
Chromium	**24**		**2.2**	**mg/Kg-dry**	5	9/9/2014 08:44 PM
Copper	**21**		**2.2**	**mg/Kg-dry**	5	9/9/2014 08:44 PM
Lead	**15**		**2.2**	**mg/Kg-dry**	5	9/9/2014 08:44 PM
Nickel	**17**		**2.2**	**mg/Kg-dry**	5	9/9/2014 08:44 PM
Selenium	ND		2.2	mg/Kg-dry	5	9/9/2014 08:44 PM
Silver	ND		2.2	mg/Kg-dry	5	9/9/2014 08:44 PM
Zinc	**53**		**4.3**	**mg/Kg-dry**	5	9/9/2014 08:44 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHOD**		Prep: USDA Method 20B / 9/9/14	Analyst: **JEC**
Sodium Adsorption Ratio	**0.48**		**0.010**	**none**	1	9/9/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 9/9/14	Analyst: **MK**
Acenaphthene	ND		7.8	µg/Kg-dry	1	9/10/2014 06:17 AM
Acenaphthylene	ND		7.8	µg/Kg-dry	1	9/10/2014 06:17 AM
Anthracene	ND		7.8	µg/Kg-dry	1	9/10/2014 06:17 AM
Benzo(a)anthracene	ND		7.8	µg/Kg-dry	1	9/10/2014 06:17 AM
Benzo(a)pyrene	ND		7.8	µg/Kg-dry	1	9/10/2014 06:17 AM
Benzo(b)fluoranthene	ND		7.8	µg/Kg-dry	1	9/10/2014 06:17 AM
Benzo(g,h,i)perylene	ND		7.8	µg/Kg-dry	1	9/10/2014 06:17 AM
Benzo(k)fluoranthene	ND		7.8	µg/Kg-dry	1	9/10/2014 06:17 AM
Chrysene	ND		7.8	µg/Kg-dry	1	9/10/2014 06:17 AM

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

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14 **Work Order:** 1409213
Sample ID: West Wall, 5' **Lab ID:** 1409213-04
Collection Date: 9/3/2014 01:06 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.8	µg/Kg-dry	1	9/10/2014 06:17 AM
Fluoranthene	ND		7.8	µg/Kg-dry	1	9/10/2014 06:17 AM
Fluorene	ND		7.8	µg/Kg-dry	1	9/10/2014 06:17 AM
Indeno(1,2,3-cd)pyrene	ND		7.8	µg/Kg-dry	1	9/10/2014 06:17 AM
Naphthalene	ND		7.8	µg/Kg-dry	1	9/10/2014 06:17 AM
Pyrene	ND		7.8	µg/Kg-dry	1	9/10/2014 06:17 AM
Surr: 2-Fluorobiphenyl	*84.5*		*12-100*	*%REC*	1	9/10/2014 06:17 AM
Surr: 4-Terphenyl-d14	*89.5*		*25-137*	*%REC*	1	9/10/2014 06:17 AM
Surr: Nitrobenzene-d5	*65.0*		*37-107*	*%REC*	1	9/10/2014 06:17 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 9/8/14	Analyst: **BG**
Benzene	ND		36	µg/Kg-dry	1	9/12/2014 02:01 AM
Ethylbenzene	ND		36	µg/Kg-dry	1	9/12/2014 02:01 AM
m,p-Xylene	ND		71	µg/Kg-dry	1	9/12/2014 02:01 AM
o-Xylene	ND		36	µg/Kg-dry	1	9/12/2014 02:01 AM
Toluene	ND		36	µg/Kg-dry	1	9/12/2014 02:01 AM
Xylenes, Total	ND		110	µg/Kg-dry	1	9/12/2014 02:01 AM
Surr: 1,2-Dichloroethane-d4	*95.2*		*70-130*	*%REC*	1	9/12/2014 02:01 AM
Surr: 4-Bromofluorobenzene	*99.6*		*70-130*	*%REC*	1	9/12/2014 02:01 AM
Surr: Dibromofluoromethane	*98.2*		*70-130*	*%REC*	1	9/12/2014 02:01 AM
Surr: Toluene-d8	*95.4*		*70-130*	*%REC*	1	9/12/2014 02:01 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHOD**		Prep: USDA Method 20B / 9/9/14	Analyst: **MELB**
Electrical Conductivity @ Saturation	**0.83**		**0.050**	**mmhos/cm @25**	10	9/9/2014 02:30 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**22**		**0.59**	**mg/Kg-dry**	1	9/11/2014 02:00 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 9/8/14	Analyst: **MB**
Chromium, Hexavalent	**1.2**		**0.58**	**mg/Kg-dry**	1	9/10/2014 12:00 PM
MOISTURE			**A2540 G**			Analyst: **RLM**
Moisture	**16**		**0.050**	**% of sample**	1	9/8/2014 05:26 PM
PH			**SW9045D**		Prep: EXTRACT / 9/5/14	Analyst: **JB**
pH	**8.0**			**s.u.**	1	9/8/2014 11:00 AM

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

ALS Group USA, Corp

Date: *15-Sep-14*

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14 **Work Order:** 1409213
Sample ID: Footprint, 10' **Lab ID:** 1409213-05
Collection Date: 9/3/2014 01:00 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3541 / 9/9/14	Analyst: **IT**
DRO (C10-C28)	**87**		**4.8**	**mg/Kg-dry**	1	9/13/2014 04:46 AM
Surr: 4-Terphenyl-d14	*75.2*		*39-133*	*%REC*	1	9/13/2014 04:46 AM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**		Prep: SW5035 / 9/8/14	Analyst: **IT**
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	9/8/2014 08:39 PM
Surr: Toluene-d8	*117*		*50-150*	*%REC*	1	9/8/2014 08:39 PM
MERCURY BY CVAA			**SW7471**		Prep: SW7471 / 9/12/14	Analyst: **LR**
Mercury	**0.034**		**0.017**	**mg/Kg-dry**	1	9/12/2014 04:22 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 9/9/14	Analyst: **JEC**
Calcium	**130**		**5.0**	**mg/L**	10	9/9/2014 05:32 PM
Magnesium	**60**		**2.0**	**mg/L**	10	9/9/2014 05:32 PM
Sodium	**39**		**2.0**	**mg/L**	10	9/9/2014 05:32 PM
METALS BY ICP-MS			**SW6020A**		Prep: SW3050B / 9/9/14	Analyst: **ML**
Arsenic	**27**		**2.2**	**mg/Kg-dry**	5	9/9/2014 08:50 PM
Barium	**360**		**2.2**	**mg/Kg-dry**	5	9/9/2014 08:50 PM
Cadmium	ND		0.88	mg/Kg-dry	5	9/9/2014 08:50 PM
Chromium	**26**		**2.2**	**mg/Kg-dry**	5	9/9/2014 08:50 PM
Copper	**25**		**2.2**	**mg/Kg-dry**	5	9/9/2014 08:50 PM
Lead	**18**		**2.2**	**mg/Kg-dry**	5	9/9/2014 08:50 PM
Nickel	**21**		**2.2**	**mg/Kg-dry**	5	9/9/2014 08:50 PM
Selenium	ND		2.2	mg/Kg-dry	5	9/9/2014 08:50 PM
Silver	ND		2.2	mg/Kg-dry	5	9/9/2014 08:50 PM
Zinc	**65**		**4.4**	**mg/Kg-dry**	5	9/9/2014 08:50 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHOD**		Prep: USDA Method 20B / 9/9/14	Analyst: **JEC**
Sodium Adsorption Ratio	**0.71**		**0.010**	**none**	1	9/9/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 9/9/14	Analyst: **MK**
Acenaphthene	ND		7.7	µg/Kg-dry	1	9/10/2014 06:37 AM
Acenaphthylene	ND		7.7	µg/Kg-dry	1	9/10/2014 06:37 AM
Anthracene	ND		7.7	µg/Kg-dry	1	9/10/2014 06:37 AM
Benzo(a)anthracene	ND		7.7	µg/Kg-dry	1	9/10/2014 06:37 AM
Benzo(a)pyrene	ND		7.7	µg/Kg-dry	1	9/10/2014 06:37 AM
Benzo(b)fluoranthene	ND		7.7	µg/Kg-dry	1	9/10/2014 06:37 AM
Benzo(g,h,i)perylene	ND		7.7	µg/Kg-dry	1	9/10/2014 06:37 AM
Benzo(k)fluoranthene	ND		7.7	µg/Kg-dry	1	9/10/2014 06:37 AM
Chrysene	ND		7.7	µg/Kg-dry	1	9/10/2014 06:37 AM

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

ALS Group USA, Corp

Date: *15-Sep-14*

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14 **Work Order:** 1409213
Sample ID: Footprint, 10' **Lab ID:** 1409213-05
Collection Date: 9/3/2014 01:00 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.7	µg/Kg-dry	1	9/10/2014 06:37 AM
Fluoranthene	ND		7.7	µg/Kg-dry	1	9/10/2014 06:37 AM
Fluorene	ND		7.7	µg/Kg-dry	1	9/10/2014 06:37 AM
Indeno(1,2,3-cd)pyrene	ND		7.7	µg/Kg-dry	1	9/10/2014 06:37 AM
Naphthalene	ND		7.7	µg/Kg-dry	1	9/10/2014 06:37 AM
Pyrene	ND		7.7	µg/Kg-dry	1	9/10/2014 06:37 AM
Surr: 2-Fluorobiphenyl	*66.7*		*12-100*	*%REC*	1	9/10/2014 06:37 AM
Surr: 4-Terphenyl-d14	*68.0*		*25-137*	*%REC*	1	9/10/2014 06:37 AM
Surr: Nitrobenzene-d5	*51.1*		*37-107*	*%REC*	1	9/10/2014 06:37 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 9/8/14	Analyst: **BG**
Benzene	ND		35	µg/Kg-dry	1	9/12/2014 02:26 AM
Ethylbenzene	ND		35	µg/Kg-dry	1	9/12/2014 02:26 AM
m,p-Xylene	ND		71	µg/Kg-dry	1	9/12/2014 02:26 AM
o-Xylene	ND		35	µg/Kg-dry	1	9/12/2014 02:26 AM
Toluene	ND		35	µg/Kg-dry	1	9/12/2014 02:26 AM
Xylenes, Total	ND		110	µg/Kg-dry	1	9/12/2014 02:26 AM
Surr: 1,2-Dichloroethane-d4	*94.4*		*70-130*	*%REC*	1	9/12/2014 02:26 AM
Surr: 4-Bromofluorobenzene	*101*		*70-130*	*%REC*	1	9/12/2014 02:26 AM
Surr: Dibromofluoromethane	*96.1*		*70-130*	*%REC*	1	9/12/2014 02:26 AM
Surr: Toluene-d8	*94.6*		*70-130*	*%REC*	1	9/12/2014 02:26 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHOD**		Prep: USDA Method 20B / 9/9/14	Analyst: **MELB**
Electrical Conductivity @ Saturation	**1.3**		**0.050**	**mmhos/cm @25**	10	9/9/2014 02:30 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**26**		**0.59**	**mg/Kg-dry**	1	9/11/2014 02:00 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 9/8/14	Analyst: **MB**
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	9/10/2014 12:00 PM
MOISTURE			**A2540 G**			Analyst: **RLM**
Moisture	**15**		**0.050**	**% of sample**	1	9/8/2014 05:26 PM
PH			**SW9045D**		Prep: EXTRACT / 9/5/14	Analyst: **JB**
pH	**8.0**			**s.u.**	1	9/8/2014 11:00 AM

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

Batch ID: **62551** Instrument ID **GC8** Method: **SW8015M**

MBLK Sample ID: **DBLKS1-62551-62551** Units: **mg/Kg** Analysis Date: **9/11/2014 01:04 PM**

Client ID: Run ID: **GC8_140911A** SeqNo: **2930742** Prep Date: **9/9/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
Surr: 4-Terphenyl-d14	*1.854*	0	*2*	0	*92.7*	*39-133*	0			

LCS Sample ID: **DLCSS1-62551-62551** Units: **mg/Kg** Analysis Date: **9/11/2014 01:31 PM**

Client ID: Run ID: **GC8_140911A** SeqNo: **2930743** Prep Date: **9/9/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	178.6	5.0	200	0	89.3	61-109	0			
Surr: 4-Terphenyl-d14	*1.672*	0	*2*	0	*83.6*	*39-133*	0			

MS Sample ID: **1409187-04C MS** Units: **mg/Kg** Analysis Date: **9/11/2014 01:57 PM**

Client ID: Run ID: **GC8_140911A** SeqNo: **2930755** Prep Date: **9/9/2014** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	808.2	17	332.4	451.6	107	48-110	0			
Surr: 4-Terphenyl-d14	*2.557*	0	*3.324*	0	*76.9*	*39-133*	0			

MSD Sample ID: **1409187-04C MSD** Units: **mg/Kg** Analysis Date: **9/11/2014 02:24 PM**

Client ID: Run ID: **GC8_140911A** SeqNo: **2930757** Prep Date: **9/9/2014** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	945.6	16	326.1	451.6	151	48-110	808.2	15.7	30	S
Surr: 4-Terphenyl-d14	*2.442*	0	*3.261*	0	*74.9*	*39-133*	2.557	*4.6*	*30*	

The following samples were analyzed in this batch: 1409213-01B, 1409213-02B, 1409213-03B, 1409213-04B, 1409213-05B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409213
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14

QC BATCH REPORT

Batch ID: **62438** Instrument ID **GC9** Method: **SW8015**

MBLK Sample ID: **MBLK-62438-62438** Units: **µg/Kg** Analysis Date: **9/5/2014 02:52 PM**
Client ID: Run ID: **GC9_140905A** SeqNo: **2920880** Prep Date: **9/5/2014** 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								
Surr: Toluene-d8	*4629*	0	*5000*	0	*92.6*	*50-150*	0			

LCS Sample ID: **LCS-62438-62438** Units: **µg/Kg** Analysis Date: **9/5/2014 02:27 PM**
Client ID: Run ID: **GC9_140905A** SeqNo: **2920878** Prep Date: **9/5/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	494000	2,500	500000	0	98.8	70-130	0			
Surr: Toluene-d8	*5791*	0	*5000*	0	*116*	*50-150*	0			

MS Sample ID: **14081613-02A MS** Units: **µg/Kg** Analysis Date: **9/5/2014 05:49 PM**
Client ID: Run ID: **GC9_140905A** SeqNo: **2922711** Prep Date: **9/5/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	544600	2,500	500000	0	109	70-130	0			
Surr: Toluene-d8	*4926*	0	*5000*	0	*98.5*	*50-150*	0			

MSD Sample ID: **14081613-02A MSD** Units: **µg/Kg** Analysis Date: **9/5/2014 06:15 PM**
Client ID: Run ID: **GC9_140905A** SeqNo: **2922712** Prep Date: **9/5/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	510100	2,500	500000	0	102	70-130	544600	6.54	30	
Surr: Toluene-d8	*6158*	0	*5000*	0	*123*	*50-150*	4926	*22.2*	*30*	

The following samples were analyzed in this batch: 1409213-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409213
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14

QC BATCH REPORT

Batch ID: **62504** Instrument ID **GC9** Method: **SW8015**

MBLK Sample ID: **MBLK-62504-62504** Units: **µg/Kg** Analysis Date: **9/8/2014 06:32 PM**
Client ID: Run ID: **GC9_140908A** SeqNo: **2925046** Prep Date: **9/8/2014** 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								
Surr: Toluene-d8	*4930*	0	*5000*	0	*98.6*	*50-150*	0			

LCS Sample ID: **LCS-62504-62504** Units: **µg/Kg** Analysis Date: **9/8/2014 06:06 PM**
Client ID: Run ID: **GC9_140908A** SeqNo: **2925044** Prep Date: **9/8/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	530300	2,500	500000	0	106	70-130	0			
Surr: Toluene-d8	*5507*	0	*5000*	0	*110*	*50-150*	0			

MS Sample ID: **1409213-02A MS** Units: **µg/Kg** Analysis Date: **9/9/2014 12:53 PM**
Client ID: **South Wall, 5'** Run ID: **GC9_140908A** SeqNo: **2925061** Prep Date: **9/8/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	515100	2,500	500000	0	103	70-130	0			
Surr: Toluene-d8	*4252*	0	*5000*	0	*85*	*50-150*	0			

MSD Sample ID: **1409213-02A MSD** Units: **µg/Kg** Analysis Date: **9/9/2014 01:18 AM**
Client ID: **South Wall, 5'** Run ID: **GC9_140908A** SeqNo: **2925058** Prep Date: **9/8/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	509200	2,500	500000	0	102	70-130	515100	1.16	30	
Surr: Toluene-d8	*4286*	0	*5000*	0	*85.7*	*50-150*	4252	*0.808*	*30*	

The following samples were analyzed in this batch: 1409213-02A 1409213-03A 1409213-04A 1409213-05A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409213
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14

QC BATCH REPORT

Batch ID: **62718** Instrument ID **HG1** Method: **SW7471**

MBLK Sample ID: **MBLK-62718-62718** Units: **mg/Kg** Analysis Date: **9/12/2014 04:06 PM**
Client ID: Run ID: **HG1_140912B** SeqNo: **2932764** Prep Date: **9/12/2014** 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-62718-62718** Units: **mg/Kg** Analysis Date: **9/12/2014 04:09 PM**
Client ID: Run ID: **HG1_140912B** SeqNo: **2932765** Prep Date: **9/12/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1756	0.020	0.1665	0	105	80-120	0			

MS Sample ID: **1409272-01BMS** Units: **mg/Kg** Analysis Date: **9/12/2014 04:39 PM**
Client ID: Run ID: **HG1_140912B** SeqNo: **2932778** Prep Date: **9/12/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1448	0.013	0.1084	0.02924	107	75-125	0			

MSD Sample ID: **1409272-01BMSD** Units: **mg/Kg** Analysis Date: **9/12/2014 04:41 PM**
Client ID: Run ID: **HG1_140912B** SeqNo: **2932779** Prep Date: **9/12/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1353	0.013	0.1055	0.02924	101	75-125	0.1448	6.76	35	

The following samples were analyzed in this batch:

1409213-01B	1409213-02B	1409213-03B
1409213-04B	1409213-05B	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409213
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14

QC BATCH REPORT

Batch ID: **62544** Instrument ID **SAR** Method: **USDA H60 Method**

DUP	Sample ID: **1409144-01ADUP**			Units: **none**		Analysis Date: **9/9/2014**			
Client ID:	Run ID: **SAR_140909A**			SeqNo: **2926956**		Prep Date: **9/9/2014**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	6.899	0.010	0	0	0		6.935	0.531	50	

The following samples were analyzed in this batch:

1409213-01C	1409213-02C	1409213-03C
1409213-04C	1409213-05C	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409213
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14

QC BATCH REPORT

Batch ID: **62575** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-62575-62575** Units: **mg/Kg** Analysis Date: **9/9/2014 08:14 PM**
Client ID: Run ID: **ICPMS1_140909A** SeqNo: **2927331** Prep Date: **9/9/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	0.001054	0.10								J
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	0.03795	0.50								J

LCS Sample ID: **LCS-62575-62575** Units: **mg/Kg** Analysis Date: **9/9/2014 08:20 PM**
Client ID: Run ID: **ICPMS1_140909A** SeqNo: **2927332** Prep Date: **9/9/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.42	0.25	5	0	88.4	80-120	0			
Barium	4.444	0.25	5	0	88.9	80-120	0			
Cadmium	4.54	0.10	5	0	90.8	80-120	0			
Chromium	4.554	0.25	5	0	91.1	80-120	0			
Copper	4.506	0.25	5	0	90.1	80-120	0			
Lead	4.46	0.25	5	0	89.2	80-120	0			
Nickel	4.578	0.25	5	0	91.6	80-120	0			
Selenium	4.52	0.25	5	0	90.4	80-120	0			
Silver	4.487	0.25	5	0	89.7	80-120	0			
Zinc	4.407	0.50	5	0	88.1	80-120	0			

MS Sample ID: **1409291-04AMS** Units: **mg/Kg** Analysis Date: **9/9/2014 09:57 PM**
Client ID: Run ID: **ICPMS1_140909A** SeqNo: **2927361** Prep Date: **9/9/2014** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.19	1.7	6.711	3.952	92.9	75-125	0			
Barium	233.6	1.7	6.711	228.6	73.8	75-125	0			SO
Cadmium	6.517	0.67	6.711	0.1888	94.3	75-125	0			
Chromium	25.47	1.7	6.711	18.92	97.7	75-125	0			
Copper	15.23	1.7	6.711	9.032	92.4	75-125	0			
Lead	18.3	1.7	6.711	11.28	105	75-125	0			
Nickel	18.71	1.7	6.711	12.51	92.4	75-125	0			
Selenium	8.208	1.7	6.711	1.972	92.9	75-125	0			
Silver	5.678	1.7	6.711	0.0485	83.9	75-125	0			
Zinc	43.93	3.4	6.711	36.82	106	75-125	0			O

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409213
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14

QC BATCH REPORT

Batch ID: **62575** Instrument ID **ICPMS1** Method: **SW6020A**

MSD Sample ID: **1409291-04AMSD** Units: **mg/Kg** Analysis Date: **9/9/2014 10:03 PM**
Client ID: Run ID: **ICPMS1_140909A** SeqNo: **2927362** Prep Date: **9/9/2014** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.983	1.7	6.693	3.952	90.1	75-125	10.19	2.03	25	
Barium	236.8	1.7	6.693	228.6	122	75-125	233.6	1.36	25	O
Cadmium	6.466	0.67	6.693	0.1888	93.8	75-125	6.517	0.784	25	
Chromium	25.67	1.7	6.693	18.92	101	75-125	25.47	0.78	25	
Copper	14.96	1.7	6.693	9.032	88.6	75-125	15.23	1.8	25	
Lead	17.64	1.7	6.693	11.28	95	75-125	18.3	3.68	25	
Nickel	18.17	1.7	6.693	12.51	84.6	75-125	18.71	2.92	25	
Selenium	7.246	1.7	6.693	1.972	78.8	75-125	8.208	12.5	25	
Silver	5.696	1.7	6.693	0.0485	84.4	75-125	5.678	0.321	25	
Zinc	42.87	3.3	6.693	36.82	90.5	75-125	43.93	2.43	25	O

The following samples were analyzed in this batch:

1409213-01B	1409213-02B	1409213-03B
1409213-04B	1409213-05B	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409213
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14

QC BATCH REPORT

Batch ID: **62550** Instrument ID **SVMS5** Method: **SW846 8270D**

MBLK Sample ID: **SBLKS1-62550-62550** Units: **µg/Kg** Analysis Date: **9/10/2014 11:06 AM**
Client ID: Run ID: **SVMS5_140910A** SeqNo: **2927991** Prep Date: **9/9/2014** 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	*1325*	0	*1667*	0	*79.5*	*12-100*	0			
Surr: 4-Terphenyl-d14	*2020*	0	*1667*	0	*121*	*25-137*	0			
Surr: Nitrobenzene-d5	*1165*	0	*1667*	0	*69.9*	*37-107*	0			

LCS Sample ID: **SLCSS1-62550-62550** Units: **µg/Kg** Analysis Date: **9/10/2014 11:29 AM**
Client ID: Run ID: **SVMS5_140910A** SeqNo: **2927993** Prep Date: **9/9/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	566	6.7	666.7	0	84.9	45-110	0			
Acenaphthylene	572.7	6.7	666.7	0	85.9	45-105	0			
Anthracene	634.3	6.7	666.7	0	95.1	55-105	0			
Benzo(a)anthracene	663.3	6.7	666.7	0	99.5	50-110	0			
Benzo(a)pyrene	614.7	6.7	666.7	0	92.2	50-110	0			
Benzo(b)fluoranthene	637.3	6.7	666.7	0	95.6	45-115	0			
Benzo(g,h,i)perylene	598.7	6.7	666.7	0	89.8	40-125	0			
Benzo(k)fluoranthene	684	6.7	666.7	0	103	45-115	0			
Chrysene	670	6.7	666.7	0	100	55-110	0			
Dibenzo(a,h)anthracene	564.3	6.7	666.7	0	84.6	40-125	0			
Fluoranthene	624.3	6.7	666.7	0	93.6	55-115	0			
Fluorene	591.7	6.7	666.7	0	88.7	50-110	0			
Indeno(1,2,3-cd)pyrene	538	6.7	666.7	0	80.7	40-120	0			
Naphthalene	542.7	6.7	666.7	0	81.4	40-105	0			
Pyrene	721.3	6.7	666.7	0	108	45-125	0			
Surr: 2-Fluorobiphenyl	*1353*	0	*1667*	0	*81.2*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1951*	0	*1667*	0	*117*	*25-137*	0			
Surr: Nitrobenzene-d5	*1295*	0	*1667*	0	*77.7*	*37-107*	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409213
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14

QC BATCH REPORT

Batch ID: **62550** Instrument ID **SVMS5** Method: **SW846 8270D**

MS Sample ID: **1409187-04C MS** Units: **µg/Kg** Analysis Date: **9/10/2014 01:32 PM**
Client ID: Run ID: **SVMS5_140910A** SeqNo: **2927995** Prep Date: **9/9/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1137	13	1270	0	89.5	45-110	0			
Acenaphthylene	1148	13	1270	0	90.4	45-105	0			
Anthracene	1158	13	1270	0	91.1	55-105	0			
Benzo(a)anthracene	1436	13	1270	205.7	96.8	50-110	0			
Benzo(a)pyrene	1352	13	1270	0	106	50-110	0			
Benzo(b)fluoranthene	1597	13	1270	0	126	45-115	0			S
Benzo(g,h,i)perylene	1399	13	1270	0	110	40-125	0			
Benzo(k)fluoranthene	1417	13	1270	0	112	45-115	0			
Chrysene	1759	13	1270	0	138	55-110	0			S
Dibenzo(a,h)anthracene	1139	13	1270	0	89.7	40-125	0			
Fluoranthene	1360	13	1270	0	107	55-115	0			
Fluorene	1154	13	1270	0	90.9	50-110	0			
Indeno(1,2,3-cd)pyrene	1323	13	1270	203.1	88.2	40-120	0			
Naphthalene	1077	13	1270	0	84.8	40-105	0			
Pyrene	1733	13	1270	0	136	45-125	0			S
Surr: 2-Fluorobiphenyl	*2640*	0	*3175*	0	*83.2*	*12-100*	0			
Surr: 4-Terphenyl-d14	*3562*	0	*3175*	0	*112*	*25-137*	0			
Surr: Nitrobenzene-d5	*2253*	0	*3175*	0	*71*	*37-107*	0			

MSD Sample ID: **1409187-04C MSD** Units: **µg/Kg** Analysis Date: **9/10/2014 01:54 PM**
Client ID: Run ID: **SVMS5_140910A** SeqNo: **2927997** Prep Date: **9/9/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1059	13	1252	0	84.6	45-110	1137	7.11	30	
Acenaphthylene	1080	13	1252	0	86.2	45-105	1148	6.12	30	
Anthracene	1142	13	1252	0	91.2	55-105	1158	1.32	30	
Benzo(a)anthracene	1303	13	1252	205.7	87.6	50-110	1436	9.71	30	
Benzo(a)pyrene	1239	13	1252	0	99	50-110	1352	8.72	30	
Benzo(b)fluoranthene	1338	13	1252	0	107	45-115	1597	17.7	30	
Benzo(g,h,i)perylene	1268	13	1252	0	101	40-125	1399	9.89	30	
Benzo(k)fluoranthene	1253	13	1252	0	100	45-115	1417	12.3	30	
Chrysene	1544	13	1252	0	123	55-110	1759	13	30	S
Dibenzo(a,h)anthracene	1090	13	1252	0	87.1	40-125	1139	4.37	30	
Fluoranthene	1176	13	1252	0	93.9	55-115	1360	14.5	30	
Fluorene	1108	13	1252	0	88.5	50-110	1154	4.1	30	
Indeno(1,2,3-cd)pyrene	1408	13	1252	203.1	96.2	40-120	1323	6.19	30	
Naphthalene	997.8	13	1252	0	79.7	40-105	1077	7.62	30	
Pyrene	1470	13	1252	0	117	45-125	1733	16.5	30	
Surr: 2-Fluorobiphenyl	*2508*	0	*3130*	0	*80.1*	*12-100*	2640	*5.15*	*40*	
Surr: 4-Terphenyl-d14	*3479*	0	*3130*	0	*111*	*25-137*	3562	*2.37*	*40*	
Surr: Nitrobenzene-d5	*2120*	0	*3130*	0	*67.7*	*37-107*	2253	*6.12*	*40*	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409213
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14

QC BATCH REPORT

Batch ID: **62550** Instrument ID **SVMS5** Method: **SW846 8270D**

The following samples were analyzed in this batch:

1409213-01B	1409213-02B	1409213-03B
1409213-04B	1409213-05B	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409213
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14

QC BATCH REPORT

Batch ID: **62465** Instrument ID **VMS6** Method: **SW8260B**

MBLK Sample ID: **MBLK-62465-62465** Units: **µg/Kg** Analysis Date: **9/8/2014 01:09 AM**
Client ID: Run ID: **VMS6_140907A** SeqNo: **2923880** Prep Date: **9/5/2014** 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	*1010*	0	*1000*	0	*101*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*989*	0	*1000*	0	*98.9*	*70-130*	0			
Surr: Dibromofluoromethane	*983.5*	0	*1000*	0	*98.4*	*70-130*	0			
Surr: Toluene-d8	*996*	0	*1000*	0	*99.6*	*70-130*	0			

LCS Sample ID: **LCS-62465-62465** Units: **µg/Kg** Analysis Date: **9/7/2014 11:52 PM**
Client ID: Run ID: **VMS6_140907A** SeqNo: **2923879** Prep Date: **9/5/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	962	30	1000	0	96.2	75-125	0			
Ethylbenzene	986.5	30	1000	0	98.6	75-125	0			
m,p-Xylene	1984	60	2000	0	99.2	80-125	0			
o-Xylene	990.5	30	1000	0	99	75-125	0			
Toluene	963	30	1000	0	96.3	70-125	0			
Xylenes, Total	2974	90	3000	0	99.2	75-125	0			
Surr: 1,2-Dichloroethane-d4	*982.5*	0	*1000*	0	*98.2*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1012*	0	*1000*	0	*101*	*70-130*	0			
Surr: Dibromofluoromethane	*1018*	0	*1000*	0	*102*	*70-130*	0			
Surr: Toluene-d8	*1008*	0	*1000*	0	*101*	*70-130*	0			

The following samples were analyzed in this batch: 1409213-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409213
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14

QC BATCH REPORT

Batch ID: **62503** Instrument ID **VMS6** Method: **SW8260B**

MBLK Sample ID: **MBLK-62503-62503** Units: **µg/Kg** Analysis Date: **9/8/2014 02:11 PM**
Client ID: Run ID: **VMS6_140908A** SeqNo: **2925305** Prep Date: **9/8/2014** 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								
Surr: 1,2-Dichloroethane-d4	*1004*	0	*1000*	0	*100*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*984*	0	*1000*	0	*98.4*	*70-130*	0			
Surr: Dibromofluoromethane	*952.5*	0	*1000*	0	*95.2*	*70-130*	0			
Surr: Toluene-d8	*981*	0	*1000*	0	*98.1*	*70-130*	0			

LCS Sample ID: **LCS-62503-62503** Units: **µg/Kg** Analysis Date: **9/8/2014 12:54 PM**
Client ID: Run ID: **VMS6_140908A** SeqNo: **2925303** Prep Date: **9/8/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1032	30	1000	0	103	75-125	0			
Ethylbenzene	1050	30	1000	0	105	75-125	0			
m,p-Xylene	2112	60	2000	0	106	80-125	0			
o-Xylene	1060	30	1000	0	106	75-125	0			
Toluene	1026	30	1000	0	103	70-125	0			
Xylenes, Total	3172	90	3000	0	106	75-125	0			
Surr: 1,2-Dichloroethane-d4	*998.5*	0	*1000*	0	*99.8*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*994.5*	0	*1000*	0	*99.4*	*70-130*	0			
Surr: Dibromofluoromethane	*1035*	0	*1000*	0	*104*	*70-130*	0			
Surr: Toluene-d8	*1000*	0	*1000*	0	*100*	*70-130*	0			

MS Sample ID: **1409041-03A MS** Units: **µg/Kg** Analysis Date: **9/9/2014 07:01 AM**
Client ID: Run ID: **VMS7_140908B** SeqNo: **2925765** Prep Date: **9/8/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	970.5	30	1000	0	97	75-125	0			
Ethylbenzene	980	30	1000	0	98	75-125	0			
m,p-Xylene	1920	60	2000	0	96	80-125	0			
o-Xylene	968	30	1000	0	96.8	75-125	0			
Toluene	961.5	30	1000	0	96.2	70-125	0			
Xylenes, Total	2888	90	3000	0	96.3	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1002*	0	*1000*	0	*100*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1008*	0	*1000*	0	*101*	*70-130*	0			
Surr: Dibromofluoromethane	*986.5*	0	*1000*	0	*98.6*	*70-130*	0			
Surr: Toluene-d8	*998.5*	0	*1000*	0	*99.8*	*70-130*	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409213
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14

QC BATCH REPORT

Batch ID: **62503** Instrument ID **VMS6** Method: **SW8260B**

MSD Sample ID: **1409041-03A MSD** Units: **µg/Kg** Analysis Date: **9/9/2014 07:28 AM**
Client ID: Run ID: **VMS7_140908B** SeqNo: **2925766** Prep Date: **9/8/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	913	30	1000	0	91.3	75-125	970.5	6.11	30	
Ethylbenzene	930	30	1000	0	93	75-125	980	5.24	30	
m,p-Xylene	1855	60	2000	0	92.8	80-125	1920	3.44	30	
o-Xylene	939.5	30	1000	0	94	75-125	968	2.99	30	
Toluene	917	30	1000	0	91.7	70-125	961.5	4.74	30	
Xylenes, Total	2794	90	3000	0	93.2	75-125	2888	3.29	30	
Surr: 1,2-Dichloroethane-d4	*991.5*	0	*1000*	0	*99.2*	*70-130*	1002	*1*	*30*	
Surr: 4-Bromofluorobenzene	*999.5*	0	*1000*	0	*100*	*70-130*	1008	*0.896*	*30*	
Surr: Dibromofluoromethane	*998*	0	*1000*	0	*99.8*	*70-130*	986.5	*1.16*	*30*	
Surr: Toluene-d8	*1005*	0	*1000*	0	*100*	*70-130*	998.5	*0.649*	*30*	

The following samples were analyzed in this batch: 1409213-02A 1409213-03A 1409213-04A 1409213-05A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409213
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14

QC BATCH REPORT

Batch ID: **62536** Instrument ID **WETCHEM** Method: **SW9045D**

LCS Sample ID: **LCS-62536-62536** Units: **s.u.** Analysis Date: **9/8/2014 11:00 AM**
Client ID: Run ID: **WETCHEM_140908F** SeqNo: **2923937** Prep Date: **9/5/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	3.98	0	4	0	99.5	90-110	0			

DUP Sample ID: **1409213-01B DUP** Units: **s.u.** Analysis Date: **9/8/2014 11:00 AM**
Client ID: **North Wall, 5'** Run ID: **WETCHEM_140908F** SeqNo: **2923939** Prep Date: **9/5/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.72	0	0	0	0	0-0	7.73	0.129	20	

The following samples were analyzed in this batch:

1409213-01B	1409213-02B	1409213-03B
1409213-04B	1409213-05B	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409213
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14

QC BATCH REPORT

Batch ID: **62544** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP Sample ID: **1409144-01A DUP** Units: **mmhos/cm @25°C** Analysis Date: **9/9/2014 02:30 PM**

Client ID: Run ID: **WETCHEM_140909Q** SeqNo: **2926680** Prep Date: **9/9/2014** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	6.78	0.050	0	0	0		6.28	7.66	50	

The following samples were analyzed in this batch:

1409213-01C 1409213-02C 1409213-03C
1409213-04C 1409213-05C

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409213
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14

QC BATCH REPORT

Batch ID: **62642** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: **MBLK-62642-62642** Units: **mg/Kg** Analysis Date: **9/10/2014 12:00 PM**
Client ID: Run ID: **WETCHEM_140910M** SeqNo: **2928216** Prep Date: **9/8/2014** 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-62642-62642** Units: **mg/Kg** Analysis Date: **9/10/2014 12:00 PM**
Client ID: Run ID: **WETCHEM_140910M** SeqNo: **2928215** Prep Date: **9/8/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.82	0.50	2	0	91	80-120	0			

MS Sample ID: **1409213-03B MS** Units: **mg/Kg** Analysis Date: **9/10/2014 12:00 PM**
Client ID: **East Wall, 5'** Run ID: **WETCHEM_140910M** SeqNo: **2928200** Prep Date: **9/8/2014** 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	1.961	0.1608	-8.2	75-125	0			S

MS Sample ID: **1409213-03B MSI** Units: **mg/Kg** Analysis Date: **9/10/2014 12:00 PM**
Client ID: **East Wall, 5'** Run ID: **WETCHEM_140910M** SeqNo: **2928202** Prep Date: **9/8/2014** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	601.6	49	839.2	0.1608	71.7	75-125	0			S

MSD Sample ID: **1409213-03B MSD** Units: **mg/Kg** Analysis Date: **9/10/2014 12:00 PM**
Client ID: **East Wall, 5'** Run ID: **WETCHEM_140910M** SeqNo: **2928201** Prep Date: **9/8/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5079	0.49	1.969	0.1608	17.6	75-125	0.1137	127	20	SR

The following samples were analyzed in this batch:

1409213-01B	1409213-02B	1409213-03B
1409213-04B	1409213-05B	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1409213
Project: Caerus Garden Gulch 5 PBV Removal 9.3.14

QC BATCH REPORT

Batch ID: **R147794** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS-R147794** Units: **% of sample** Analysis Date: **9/8/2014 05:26 PM**
Client ID: Run ID: **MOIST_140908D** SeqNo: **2926128** 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-R147794** Units: **% of sample** Analysis Date: **9/8/2014 05:26 PM**
Client ID: Run ID: **MOIST_140908D** SeqNo: **2926127** 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: **1409135-03A DUP** Units: **% of sample** Analysis Date: **9/8/2014 05:26 PM**
Client ID: Run ID: **MOIST_140908D** SeqNo: **2926107** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	11.17	0.050	0	0	0	0-0	11.21	0.357	20	

DUP Sample ID: **1409202-01B DUP** Units: **% of sample** Analysis Date: **9/8/2014 05:26 PM**
Client ID: Run ID: **MOIST_140908D** SeqNo: **2926118** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	7.49	0.050	0	0	0	0-0	7.58	1.19	20	

The following samples were analyzed in this batch:

1409213-01B	1409213-02B	1409213-03B
1409213-04B	1409213-05B	

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

ALS Laboratory Group

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

Chain-of-Custody

Form 202r8

WORKORDER # 1409213

PAGE 1 of 1

DISPOSAL ~~Return~~ or Return to Client

PROJECT NAME	CAERUS GARDEN GULCH PDV REMOVAL #13-199-20	SAMPLER	Casey Richardson
PROJECT No.		SITE ID	CONFIRMATION
		EDD FORMAT	
		PURCHASE ORDER	
COMPANY NAME	HCSI	BILL TO COMPANY	Caerus Piceance LLC
SEND REPORT TO	CASEY RICHARDSON	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	crichardson@chrisenp.com	E-MAIL	gwinters@caerusoilandgas.com

DATE 9-4-14

TURNAROUND 5 DAY

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	DRO	GRO	BTEX	TOTAL METALS - TABEL 910-1	SEMI VOLS - PAH	SAR	EC	pH
1	NORTH WALL, 5'	SOIL	9-3-14	1055	3	8		x	x	x	x	x	x	x	x
2	SOUTH WALL, 5'	"	9-3-14	1304	3	8		x	x	x	x	x	x	x	x
3	EAST WALL, 5'	"	9-3-14	930	3	8		x	x	x	x	x	x	x	x
4	WEST WALL, 5'	"	9-3-14	1306	3	8		x	x	x	x	x	x	x	x
5	FOOTPRINT, 10'	"	9-3-14	1300	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: 3.4°c

QC PACKAGE (check below)	
x	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

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

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Casey Richardson	9-4-14	1420
RECEIVED BY			9-4-14	1420.
RELINQUISHED BY			9-4-14	14:20
RECEIVED BY		Diane F. Shaw	9/5/14	0930
RELINQUISHED BY				
RECEIVED BY				

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **05-Sep-14 09:30**

Work Order: **1409213** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 05-Sep-14 (Date) Reviewed by: Ann Preston (eSignature) 05-Sep-14 (Date)

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.4 c		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	9/5/2014 12:48:10 PM		
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: (616) 399-6070
Nick Martinez
ALS Environmental
127 E. 1st Street

PARACHUTE, CO 81635

Origin ID: RILA

FedEx Express

Ship Date: 04SEP14
ActWgt: 60.0 LB
CAD: 2264840/NET3550

Dims: 24 X 15 X 15 IN

Delivery Address Bar Code

Ref # 090414-3
Invoice #
PO # Parachute
Dept #

SHIP TO: (616) 399-6070 BILL SENDER

sample receiving
ALS Laboratory Group
3352 128TH AVE

HOLLAND, MI 49424

3 of 3

MPS# 7710 5181 1219

0263

Mstr# 7710 5181 1208 0201

FRI - 05 SEP 10:30A
PRIORITY OVERNIGHT

XX HLMA

49424
MI-US
GRR

After printing this label:
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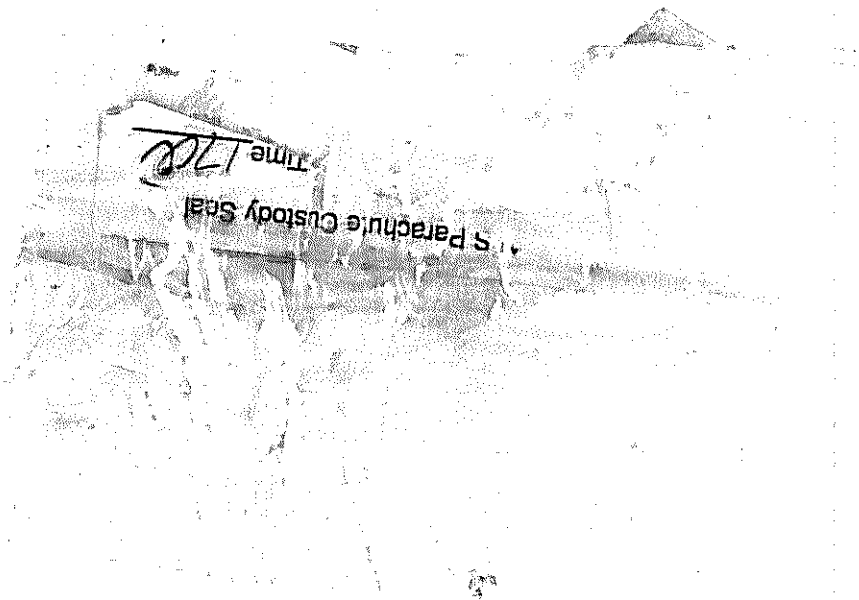

02-Oct-2014

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

Re: **Caerus Garden Gulch 5 9.24.14** Work Order: **14091233**

Dear Casey,

ALS Environmental received 3 samples on 25-Sep-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 14.

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

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN 532786

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

ALS Group USA, Corp

Date: 02-Oct-14

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 5 9.24.14
Work Order: **14091233**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
14091233-01	BKGD 01	Soil		9/24/2014 11:25	9/25/2014 09:30	☐
14091233-02	BKGD 02	Soil		9/24/2014 11:30	9/25/2014 09:30	☐
14091233-03	BKGD 03	Soil		9/24/2014 11:35	9/25/2014 09:30	☐

Qualifier	Description
*	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

Acronym	Description
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

Units Reported	Description
% 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: *02-Oct-14*

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 5 9.24.14 **Work Order:** 14091233
Sample ID: BKGD 01 **Lab ID:** 14091233-01
Collection Date: 9/24/2014 11:25 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3050B / 9/29/14	Analyst: **ML**
Arsenic	**24**		**2.3**	**mg/Kg-dry**	5	9/29/2014 10:07 PM
MOISTURE			**A2540 G**			Analyst: **RLM**
Moisture	**15**		**0.050**	**% of sample**	1	9/29/2014 08:15 PM

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

ALS Group USA, Corp

Date: *02-Oct-14*

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 5 9.24.14 **Work Order:** 14091233
Sample ID: BKGD 02 **Lab ID:** 14091233-02
Collection Date: 9/24/2014 11:30 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3050B / 9/29/14	Analyst: **ML**
Arsenic	**16**		**2.4**	**mg/Kg-dry**	5	9/29/2014 10:13 PM
MOISTURE			**A2540 G**			Analyst: **RLM**
Moisture	**13**		**0.050**	**% of sample**	1	9/29/2014 08:15 PM

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

ALS Group USA, Corp

Date: *02-Oct-14*

Client: HRL Compliance Solutions, Inc
Project: Caerus Garden Gulch 5 9.24.14 **Work Order:** 14091233
Sample ID: BKGD 03 **Lab ID:** 14091233-03
Collection Date: 9/24/2014 11:35 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 9/28/14	Analyst: **JEC**
Calcium	**290**		**5.0**	**mg/L**	10	9/29/2014 12:19 PM
Magnesium	**88**		**2.0**	**mg/L**	10	9/29/2014 12:19 PM
Sodium	**37**		**2.0**	**mg/L**	10	9/29/2014 12:19 PM
METALS BY ICP-MS			**SW6020A**		Prep: SW3050B / 9/29/14	Analyst: **ML**
Arsenic	**21**		**2.2**	**mg/Kg-dry**	5	9/29/2014 10:20 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHOD**		Prep: USDA Method 20B / 9/28/14	Analyst: **JEC**
Sodium Adsorption Ratio	**0.49**		**0.010**	**none**	1	9/29/2014
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHOD**		Prep: USDA Method 20B / 9/28/14	Analyst: **JB**
Electrical Conductivity @ Saturation	**2.4**		**0.050**	**mmhos/cm @25**	10	9/29/2014 10:00 AM
MOISTURE			**A2540 G**			Analyst: **RLM**
Moisture	**9.6**		**0.050**	**% of sample**	1	9/29/2014 08:15 PM
PH			**SW9045D**		Prep: EXTRACT / 9/25/14	Analyst: **STP**
pH	**7.8**			**s.u.**	1	9/25/2014 04:55 PM

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

QC BATCH REPORT

Batch ID: **63260** Instrument ID **ICP2** Method: **SW846 6010C**

DUP Sample ID: **14091232-01BDUP** Units: **mg/L** Analysis Date: **9/29/2014 12:13 PM**

Client ID: Run ID: **ICP2_140929A** SeqNo: **2956859** Prep Date: **9/28/2014** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	273.3	5.0	0	0	0	0-0	0			
Magnesium	55.07	2.0	0	0	0	0-0	0			
Sodium	22.56	2.0	0	0	0	0-0	0			

The following samples were analyzed in this batch: 14091233-03B

Batch ID: **63260** Instrument ID **SAR** Method: **USDA H60 Method**

DUP Sample ID: **14091232-01BDUP** Units: **none** Analysis Date: **9/29/2014**

Client ID: Run ID: **SAR_140929A** SeqNo: **2957476** Prep Date: **9/28/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.3251	0.010	0	0	0		0.3244	0.239	50	

The following samples were analyzed in this batch: 14091233-03B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091233
Project: Caerus Garden Gulch 5 9.24.14

QC BATCH REPORT

Batch ID: **63304** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-63304-63304** Units: **mg/Kg** Analysis Date: **9/29/2014 09:55 PM**
Client ID: Run ID: **ICPMS1_140929A** SeqNo: **2958026** Prep Date: **9/29/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								

LCS Sample ID: **LCS-63304-63304** Units: **mg/Kg** Analysis Date: **9/29/2014 10:01 PM**
Client ID: Run ID: **ICPMS1_140929A** SeqNo: **2958027** Prep Date: **9/29/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.224	0.25	5	0	84.5	80-120	0			

LCS Sample ID: **LCS-63304-63304** Units: **mg/Kg** Analysis Date: **10/2/2014 08:11 AM**
Client ID: Run ID: **ICPMS1_141001A** SeqNo: **2962756** Prep Date: **9/29/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.459	0.25	5	0	89.2	80-120	0			

MS Sample ID: **14091300-04CMS** Units: **mg/Kg** Analysis Date: **9/30/2014 04:02 PM**
Client ID: Run ID: **ICPMS1_140930A** SeqNo: **2960257** Prep Date: **9/29/2014** DF: **8**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.86	2.9	7.205	4.135	107	75-125	0			

MSD Sample ID: **14091300-04CMSD** Units: **mg/Kg** Analysis Date: **9/30/2014 04:08 PM**
Client ID: Run ID: **ICPMS1_140930A** SeqNo: **2960259** Prep Date: **9/29/2014** DF: **8**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.49	2.9	7.153	4.135	88.8	75-125	11.86	12.3	25	

The following samples were analyzed in this batch: 14091233-01A 14091233-02A 14091233-03A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091233
Project: Caerus Garden Gulch 5 9.24.14

QC BATCH REPORT

Batch ID: **63232** Instrument ID **WETCHEM** Method: **SW9045D**

DUP Sample ID: **14091254-01A DUP** Units: **s.u.** Analysis Date: **9/25/2014 04:55 PM**
Client ID: Run ID: **WETCHEM_140925U** SeqNo: **2953684** Prep Date: **9/25/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.39	0	0	0	0	0-0	7.42	0.405	20	

The following samples were analyzed in this batch: 14091233-03A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091233
Project: Caerus Garden Gulch 5 9.24.14

QC BATCH REPORT

Batch ID: **63260** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP Sample ID: **14091232-01B DUP** Units: **mmhos/cm @25°C** Analysis Date: **9/29/2014 10:00 AM**

Client ID: Run ID: **WETCHEM_140929B** SeqNo: **2956050** Prep Date: **9/28/2014** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.877	0.050	0	0	0		1.596	16.2	50	

The following samples were analyzed in this batch: 14091233-03B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14091233
Project: Caerus Garden Gulch 5 9.24.14

QC BATCH REPORT

Batch ID: **R149191** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS-R149191** Units: **% of sample** Analysis Date: **9/29/2014 08:15 PM**
Client ID: Run ID: **MOIST_140929E** SeqNo: **2959632** 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-R149191** Units: **% of sample** Analysis Date: **9/29/2014 08:15 PM**
Client ID: Run ID: **MOIST_140929E** SeqNo: **2959631** 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: **14091234-01B DUP** Units: **% of sample** Analysis Date: **9/29/2014 08:15 PM**
Client ID: Run ID: **MOIST_140929E** SeqNo: **2959606** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	22.89	0.050	0	0	0	0-0	21.52	6.17	20	

DUP Sample ID: **14091295-06A DUP** Units: **% of sample** Analysis Date: **9/29/2014 08:15 PM**
Client ID: Run ID: **MOIST_140929E** SeqNo: **2959625** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	51.72	0.050	0	0	0	0-0	50.81	1.78	20	

The following samples were analyzed in this batch: 14091233-01A 14091233-02A 14091233-03A

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 # 1409123

PAGE 1 of 1

PROJECT NAME	CAERUS GARDEN GULCH 5	SAMPLER	Casey Richardson	DATE	9.24.14
PROJECT No.		SITE ID	BACKGROUNDS	TURNAROUND	5 DAY
		EDD FORMAT		DISPOSAL	By Lab / Return to Client
		PURCHASE ORDER			
COMPANY NAME	HCSI	BILL TO COMPANY	Caerus Piceance LLC		
SEND REPORT TO	CASEY RICHARDSON	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	crichardson@hrlcomp.com	E-MAIL	ewinters@caerusoilandgas.com		

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	SAR, EC, pH	ARSENIC
1	BKGD 01	S	9.24.14	1125	1	8			X
2	BKGD 02	"	"	1130	1	"			X
3	BKGD 03	"	"	1135	2	"		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:

3.6°C

QC PACKAGE (check below)	
x	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

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

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Casey Richardson	9.24.14	1225
RECEIVED BY			9-24-14	1225
RELINQUISHED BY			9-24-14	1230
RECEIVED BY		Diane F. Shaw	9/25/14	0930
RELINQUISHED BY				
RECEIVED BY				

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **25-Sep-14 09:30**

Work Order: **14091233** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 25-Sep-14 (Date) Reviewed by: Ann Preston (eSignature) 25-Sep-14 (Date)

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.6 c		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	9/25/2014 11:16:02 AM		
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: (616) 399-6070
Nick Martinez
ALS Environmental
127 E. 1st Street

PARACHUTE, CO 81635

Origin ID: RILA

FedEx Express

J142214092X035

Ship Date: 24SEP14
ActWgt: 70.0 LB
CAD: 2284840/INET3550

Dims: 24 X 15 X 15 IN

Delivery Address Bar Code

Ref # 962414-1
Invoice #
PO #
Dept #

Parachute

SHIP TO: (616) 399-6070 BILL SENDER

sample receiving
ALS Laboratory Group
3352 128TH AVE

HOLLAND, MI 49424

1 of 5

THU - 25 SEP 10:30A
PRIORITY OVERNIGHT

TRK# 7712 7281 4087

0201

MASTER

XX HLMA

49424
MI-US
GRR

8201/C0B4/AC9

ALS Environmental
3352 128th Avenue
Holland, MI 49424
Ph: 616.399.6070

Client:
Sample ID:
Date:
Analysis:

Injected By:
Time:
Pages:

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