Starkey 1 (Location ID 335383)
Partially Buried Vault Release
Spill/Release Point ID 448190
Form 19 (Notice of Completion)
Narrative Attachment

This Form 19 (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) at the Starkey 1 (Location ID 335383) pad location in the Caerus Piceance, LLC (Caerus) area of operations.

All impacted soil removed during the excavation project was landfarmed on location. On November 9, 2016 a composite soil sample (Starkey 1 Landfarm) was collected from the onsite landfarm and submitted for laboratory analysis of all COGCC Table 910-1 analytes. Analytical results indicate that the soil sample was in compliance with COGCC Table 910-1 Concentration Levels for all analytes or were within background concentrations, except for the electrical conductivity (EC) measurement. However, the soil that this sample was collected from was buried within the excavation created during this remediation project at a depth greater than three feet below the ground surface and the COGCC does not apply the Concentration Level for EC to soils deeper than three feet below the ground surface.

Background samples were collected from an undisturbed area near the Chevron 41-8D pad (COGCC Location ID 324198). Laboratory analytical reports are included as an attachment.

Based on removal of the PBV, soil analytical results, and the backfilling of the excavation, Caerus requests an NFA designation for this project. Caerus also requests that the COAs attached to the COGCC-approved Form 27 (COGCC Document ID 2527215) be waived since the landfarm did not require remediation and the associated Remediation Project (Remediation Project #9911) be closed.

18-Nov-2016

Jake Janicek
Caerus Oil and Gas LLC
120 N. Railroad Ave. Suite D
Parachute, CO 81635

Re: **Starkey 1 Landfarm** Work Order: **1611728**

Dear Jake,

ALS Environmental received 1 sample on 10-Nov-2016 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 industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 23.

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

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Certificate No: MN 998501

ADDRESS 3352 128th Ave Holland, Michigan 49424 | 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

Date: 18-Nov-16

Client: Caerus Oil and Gas LLC
Project: Starkey 1 Landfarm
Work Order: **1611728**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1611728-01	Starkey 1 Landfarm	Soil		11/9/2016 11:26	11/10/2016 09:30	☐

ALS Group, USA

Date: 18-Nov-16

Client: Caerus Oil and Gas LLC
Project: Starkey 1 Landfarm
WorkOrder: **1611728**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
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
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 Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

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

Date: *18-Nov-16*

Client: Caerus Oil and Gas LLC
Project: Starkey 1 Landfarm
Sample ID: Starkey 1 Landfarm
Collection Date: 11/9/2016 11:26 AM

Work Order: 1611728
Lab ID: 1611728-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3546 / 11/14/16	Analyst: **IT**
DRO (C10-C28)	**320**		**5.7**	**mg/Kg-dry**	1	11/15/2016 03:28 AM
Surr: 4-Terphenyl-d14	*59.3*		*39-133*	*%REC*	1	11/15/2016 03:28 AM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep: SW5035 / 11/14/16	Analyst: **IT**
GRO (C6-C10)	**170**		**3.2**	**mg/Kg-dry**	1	11/14/2016 04:36 PM
Surr: Toluene-d8	*114*		*50-150*	*%REC*	1	11/14/2016 04:36 PM
MERCURY BY CVAA			**SW7471B**		Prep: SW7471 / 11/16/16	Analyst: **LR**
Mercury	**0.034**		**0.014**	**mg/Kg-dry**	1	11/17/2016 12:26 AM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 11/14/16	Analyst: **RH**
Arsenic	**8.2**		**0.42**	**mg/Kg-dry**	1	11/15/2016 12:54 PM
Barium	**190**		**0.42**	**mg/Kg-dry**	1	11/15/2016 12:54 PM
Cadmium	ND		0.85	mg/Kg-dry	1	11/15/2016 12:54 PM
Chromium	**9.0**		**0.42**	**mg/Kg-dry**	1	11/15/2016 12:54 PM
Copper	**17**		**0.85**	**mg/Kg-dry**	1	11/15/2016 12:54 PM
Lead	**11**		**0.42**	**mg/Kg-dry**	1	11/15/2016 12:54 PM
Nickel	**18**		**0.42**	**mg/Kg-dry**	1	11/15/2016 04:08 PM
Selenium	ND		0.85	mg/Kg-dry	1	11/15/2016 12:54 PM
Silver	ND		0.42	mg/Kg-dry	1	11/15/2016 12:54 PM
Zinc	**66**		**0.85**	**mg/Kg-dry**	1	11/15/2016 12:54 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 11/16/16	Analyst: **RH**
Calcium	**500**		**5.0**	**mg/L**	10	11/16/2016 01:51 PM
Magnesium	**250**		**2.0**	**mg/L**	10	11/16/2016 01:51 PM
Sodium	**220**		**2.0**	**mg/L**	10	11/16/2016 01:51 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/16	Analyst: **RH**
Sodium Adsorption Ratio	**2.0**		**0.010**	**none**	1	11/16/2016
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3546 / 11/14/16	Analyst: **JF**
Acenaphthene	ND		0.0077	mg/Kg-dry	1	11/15/2016 12:26 PM
Anthracene	ND		0.0077	mg/Kg-dry	1	11/15/2016 12:26 PM
Benzo(a)anthracene	ND		0.0077	mg/Kg-dry	1	11/15/2016 12:26 PM
Benzo(a)pyrene	ND		0.0077	mg/Kg-dry	1	11/15/2016 12:26 PM
Benzo(b)fluoranthene	ND		0.0077	mg/Kg-dry	1	11/15/2016 12:26 PM
Benzo(k)fluoranthene	ND		0.0077	mg/Kg-dry	1	11/15/2016 12:26 PM
Chrysene	ND		0.0077	mg/Kg-dry	1	11/15/2016 12:26 PM
Dibenzo(a,h)anthracene	ND		0.0077	mg/Kg-dry	1	11/15/2016 12:26 PM
Fluoranthene	ND		0.0077	mg/Kg-dry	1	11/15/2016 12:26 PM

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

ALS Group, USA

Date: *18-Nov-16*

Client: Caerus Oil and Gas LLC
Project: Starkey 1 Landfarm
Sample ID: Starkey 1 Landfarm
Collection Date: 11/9/2016 11:26 AM

Work Order: 1611728
Lab ID: 1611728-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0077	mg/Kg-dry	1	11/15/2016 12:26 PM
Indeno(1,2,3-cd)pyrene	ND		0.0077	mg/Kg-dry	1	11/15/2016 12:26 PM
Naphthalene	ND		0.0077	mg/Kg-dry	1	11/15/2016 12:26 PM
Pyrene	ND		0.0077	mg/Kg-dry	1	11/15/2016 12:26 PM
Surr: 2-Fluorobiphenyl	*77.3*		*12-100*	*%REC*	1	11/15/2016 12:26 PM
Surr: 4-Terphenyl-d14	*81.1*		*25-137*	*%REC*	1	11/15/2016 12:26 PM
Surr: Nitrobenzene-d5	*56.8*		*37-107*	*%REC*	1	11/15/2016 12:26 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 11/13/16	Analyst: **LSY**
Benzene	ND		0.039	mg/Kg-dry	1	11/16/2016 12:57 PM
Ethylbenzene	**0.15**		**0.039**	**mg/Kg-dry**	1	11/16/2016 12:57 PM
m,p-Xylene	**1.8**		**0.078**	**mg/Kg-dry**	1	11/16/2016 12:57 PM
o-Xylene	**0.41**		**0.039**	**mg/Kg-dry**	1	11/16/2016 12:57 PM
Toluene	**0.042**		**0.039**	**mg/Kg-dry**	1	11/16/2016 12:57 PM
Xylenes, Total	**2.3**		**0.12**	**mg/Kg-dry**	1	11/16/2016 12:57 PM
Surr: 1,2-Dichloroethane-d4	*95.4*		*70-130*	*%REC*	1	11/16/2016 12:57 PM
Surr: 4-Bromofluorobenzene	*115*		*70-130*	*%REC*	1	11/16/2016 12:57 PM
Surr: Dibromofluoromethane	*77.2*		*70-130*	*%REC*	1	11/16/2016 12:57 PM
Surr: Toluene-d8	*98.0*		*70-130*	*%REC*	1	11/16/2016 12:57 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/16	Analyst: **JB**
Electrical Conductivity @ Saturation	**7.7**		**0.25**	**mmhos/cm @2**	50	11/17/2016 04:45 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JB**
Chromium, Trivalent	**9.0**		**0.58**	**mg/Kg-dry**	1	11/16/2016 08:20 AM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 11/14/16	Analyst: **MB**
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	11/15/2016 05:00 PM
MOISTURE			**SW3550C**			Analyst: **EDL**
Moisture	**13**		**0.050**	**% of sample**	1	11/10/2016 07:02 PM
PH			**SW9045D**		Prep: EXTRACT / 11/14/16	Analyst: **RZM**
pH	**7.7**			**s.u.**	1	11/14/2016 04:05 PM

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

ALS Group, USA

Date: 18-Nov-16

Client: Caerus Oil and Gas LLC

Work Order: 1611728

Project: Starkey 1 Landfarm

QC BATCH REPORT

Batch ID: **94467** Instrument ID **GC8** Method: **SW8015M**

MBLK Sample ID: **DBLKS1-94467-94467** Units: **mg/Kg** Analysis Date: **11/14/2016 06:08 PM**

Client ID: Run ID: **GC8_161114A** SeqNo: **4153414** Prep Date: **11/14/2016** 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	*2.017*	0	*3.33*	0	*60.6*	*39-133*	0			

LCS Sample ID: **DLCSS1-94467-94467** Units: **mg/Kg** Analysis Date: **11/14/2016 06:37 PM**

Client ID: Run ID: **GC8_161114A** SeqNo: **4153415** Prep Date: **11/14/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	236.3	5.0	333	0	71	61-109	0			
Surr: 4-Terphenyl-d14	*1.493*	0	*3.33*	0	*44.8*	*39-133*	0			

MS Sample ID: **1611679-03A MS** Units: **mg/Kg** Analysis Date: **11/14/2016 07:07 PM**

Client ID: Run ID: **GC8_161114A** SeqNo: **4153416** Prep Date: **11/14/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	778.9	4.9	326.7	364.3	127	48-110	0			S
Surr: 4-Terphenyl-d14	*1.913*	0	*3.267*	0	*58.6*	*39-133*	0			

MSD Sample ID: **1611679-03A MSD** Units: **mg/Kg** Analysis Date: **11/14/2016 07:36 PM**

Client ID: Run ID: **GC8_161114A** SeqNo: **4153417** Prep Date: **11/14/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	793.8	4.9	329.5	364.3	130	48-110	778.9	1.9	30	S
Surr: 4-Terphenyl-d14	*2.136*	0	*3.295*	0	*64.8*	*39-133*	1.913	*11*	*30*	

The following samples were analyzed in this batch: 1611728-01A

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

Client: Caerus Oil and Gas LLC
Work Order: 1611728
Project: Starkey 1 Landfarm

QC BATCH REPORT

Batch ID: **94465** Instrument ID **GC9** Method: **SW8015D**

MBLK	Sample ID: **MBLK-94465-94465**				Units: **µg/Kg-dry**			Analysis Date: **11/14/2016 02:06 PM**			
Client ID:		Run ID: **GC9_161114A**			SeqNo: **4153485**			Prep Date: **11/14/2016**		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	*4265*	0	*5000*	0	*85.3*	*50-150*	0			

MBLK	Sample ID: **MBLK-94465-94465**				Units: **µg/Kg-dry**			Analysis Date: **11/15/2016 01:11 A**			
Client ID:		Run ID: **GC9_161114B**			SeqNo: **4153536**			Prep Date: **11/14/2016**		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-94465-94465**				Units: **µg/Kg-dry**			Analysis Date: **11/14/2016 01:42 PM**			
Client ID:		Run ID: **GC9_161114A**			SeqNo: **4153481**			Prep Date: **11/14/2016**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	473500	2,500	500000	0	94.7	70-130	0			
Surr: Toluene-d8	*5004*	0	*5000*	0	*100*	*50-150*	0			

LCS	Sample ID: **LCS-94465-94465**				Units: **µg/Kg-dry**			Analysis Date: **11/15/2016 12:44 PM**			
Client ID:		Run ID: **GC9_161114B**			SeqNo: **4153542**			Prep Date: **11/14/2016**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	10090	2,500	10000	0	101	80-120	0			

LCSD	Sample ID: **LCSD-94465-94465**				Units: **µg/Kg-dry**			Analysis Date: **11/15/2016 03:22 A**			
Client ID:		Run ID: **GC9_161114B**			SeqNo: **4153541**			Prep Date: **11/14/2016**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	11560	2,500	10000	0	116	80-120	10090	13.6	20	

MS	Sample ID: **1611395-02A MS**				Units: **µg/Kg-dry**			Analysis Date: **11/14/2016 05:01 PM**			
Client ID:		Run ID: **GC9_161114A**			SeqNo: **4153497**			Prep Date: **11/14/2016**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	707000	3,500	690500	0	102	70-130	0			
Surr: Toluene-d8	*7761*	0	*6905*	0	*112*	*50-150*	0			

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

Client: Caerus Oil and Gas LLC
Work Order: 1611728
Project: Starkey 1 Landfarm

QC BATCH REPORT

Batch ID: **94465** Instrument ID **GC9** Method: **SW8015D**

MSD Sample ID: **1611395-02A MSD** Units: **µg/Kg-dry** Analysis Date: **11/14/2016 05:26 PM**
Client ID: Run ID: **GC9_161114A** SeqNo: **4153499** Prep Date: **11/14/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	757900	3,500	690500	0	110	70-130	707000	6.95	30	
Surr: Toluene-d8	*7439*	0	*6905*	0	*108*	*50-150*	7761	*4.23*	*30*	

The following samples were analyzed in this batch: 1611728-01A

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

Client: Caerus Oil and Gas LLC
Work Order: 1611728
Project: Starkey 1 Landfarm

QC BATCH REPORT

Batch ID: **94677** Instrument ID **HG1** Method: **SW7471B**

MBLK	Sample ID: **MBLK-94677-94677**				Units: **mg/Kg**			Analysis Date: **11/16/2016 11:25 PM**			
Client ID:		Run ID: **HG1_161116A**			SeqNo: **4158001**			Prep Date: **11/16/2016**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	0.0095	0.020								J	

LCS	Sample ID: **LCS-94677-94677**				Units: **mg/Kg**			Analysis Date: **11/16/2016 11:27 PM**			
Client ID:		Run ID: **HG1_161116A**			SeqNo: **4158002**			Prep Date: **11/16/2016**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	0.1692	0.020	0.1665	0	102	80-120	0				

MS	Sample ID: **1611420-03AMS**				Units: **mg/Kg**			Analysis Date: **11/16/2016 11:38 PM**			
Client ID:		Run ID: **HG1_161116A**			SeqNo: **4158006**			Prep Date: **11/16/2016**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	0.1335	0.014	0.115	0.02647	93.1	75-125	0				

MSD	Sample ID: **1611420-03AMSD**				Units: **mg/Kg**			Analysis Date: **11/16/2016 11:40 PM**			
Client ID:		Run ID: **HG1_161116A**			SeqNo: **4158007**			Prep Date: **11/16/2016**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	0.1404	0.014	0.1159	0.02647	98.3	75-125	0.1335	5.03	35		

The following samples were analyzed in this batch: 1611728-01A

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

Client: Caerus Oil and Gas LLC
Work Order: 1611728
Project: Starkey 1 Landfarm

QC BATCH REPORT

Batch ID: **94498** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK	Sample ID: **MBLK-94498-94498**			Units: **mg/Kg**			Analysis Date: **11/15/2016 12:04 PM**			
Client ID:	Run ID: **ICP2_161115A**			SeqNo: **4154287**			Prep Date: **11/14/2016**		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	0.02936	0.50								J
Chromium	0.03967	0.25								J
Copper	ND	0.50								
Lead	ND	0.25								
Selenium	ND	0.50								
Silver	ND	0.25								
Zinc	0.06949	0.50								J

MBLK	Sample ID: **MBLK-94498-94498**			Units: **mg/Kg**			Analysis Date: **11/15/2016 03:30 PM**			
Client ID:	Run ID: **ICP2_161115A**			SeqNo: **4155466**			Prep Date: **11/14/2016**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nickel	ND	0.25								

LCS	Sample ID: **LCS-94498-94498**			Units: **mg/Kg**			Analysis Date: **11/15/2016 12:09 PM**			
Client ID:	Run ID: **ICP2_161115A**			SeqNo: **4154288**			Prep Date: **11/14/2016**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.654	0.25	5	0	93.1	80-120	0			
Barium	4.605	0.25	5	0	92.1	80-120	0			
Cadmium	4.714	0.50	5	0	94.3	80-120	0			
Chromium	4.684	0.25	5	0	93.7	80-120	0			
Copper	4.92	0.50	5	0	98.4	80-120	0			
Lead	4.544	0.25	5	0	90.9	80-120	0			
Selenium	4.406	0.50	5	0	88.1	80-120	0			
Silver	4.609	0.25	5	0	92.2	80-120	0			
Zinc	4.657	0.50	5	0	93.1	80-120	0			

LCS	Sample ID: **LCS-94498-94498**			Units: **mg/Kg**			Analysis Date: **11/15/2016 03:35 PM**			
Client ID:	Run ID: **ICP2_161115A**			SeqNo: **4155467**			Prep Date: **11/14/2016**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nickel	4.697	0.25	5	0	93.9	80-120	0			

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

Client: Caerus Oil and Gas LLC
Work Order: 1611728
Project: Starkey 1 Landfarm

QC BATCH REPORT

Batch ID: **94498** Instrument ID **ICP2** Method: **SW846 6010C**

MS Sample ID: **1611420-03AMS** Units: **mg/Kg** Analysis Date: **11/15/2016 12:31 PM**
Client ID: Run ID: **ICP2_161115A** SeqNo: **4154292** Prep Date: **11/14/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	39.55	0.40	7.949	27.06	157	75-125	0			S
Chromium	15.26	0.40	7.949	5.228	126	75-125	0			S
Copper	13.4	0.79	7.949	6.177	90.9	75-125	0			
Silver	7.604	0.40	7.949	-0.3095	99.6	75-125	0			

MS Sample ID: **1611420-03AMS** Units: **mg/Kg** Analysis Date: **11/15/2016 03:46 PM**
Client ID: Run ID: **ICP2_161115A** SeqNo: **4155469** Prep Date: **11/14/2016** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	14.55	4.0	7.949	8.87	71.4	75-125	0			S
Cadmium	9.161	7.9	7.949	0.2087	113	75-125	0			
Lead	15.38	4.0	7.949	7.058	105	75-125	0			
Nickel	20.87	4.0	7.949	13.32	95	75-125	0			
Selenium	9.099	7.9	7.949	0.1652	112	75-125	0			
Zinc	46.91	7.9	7.949	42.42	56.5	75-125	0			SO

MSD Sample ID: **1611420-03AMSD** Units: **mg/Kg** Analysis Date: **11/15/2016 12:37 PM**
Client ID: Run ID: **ICP2_161115A** SeqNo: **4154293** Prep Date: **11/14/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	39.87	0.39	7.862	27.06	163	75-125	39.55	0.803	20	S
Chromium	14.6	0.39	7.862	5.228	119	75-125	15.26	4.42	20	
Copper	13.06	0.79	7.862	6.177	87.6	75-125	13.4	2.57	20	
Silver	7.164	0.39	7.862	-0.3095	95.1	75-125	7.604	5.96	20	

MSD Sample ID: **1611420-03AMSD** Units: **mg/Kg** Analysis Date: **11/15/2016 03:52 PM**
Client ID: Run ID: **ICP2_161115A** SeqNo: **4155470** Prep Date: **11/14/2016** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.43	3.9	7.862	8.87	58	75-125	14.55	8.01	20	S
Cadmium	7.831	7.9	7.862	0.2087	97	75-125	9.161	0	20	J
Lead	13.67	3.9	7.862	7.058	84	75-125	15.38	11.8	20	
Nickel	17.53	3.9	7.862	13.32	53.6	75-125	20.87	17.4	20	S
Selenium	8.598	7.9	7.862	0.1652	107	75-125	9.099	5.66	20	
Zinc	42.94	7.9	7.862	42.42	6.59	75-125	46.91	8.85	20	SO

The following samples were analyzed in this batch: 1611728-01A

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

Client: Caerus Oil and Gas LLC
Work Order: 1611728
Project: Starkey 1 Landfarm

QC BATCH REPORT

Batch ID: **94649** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP	Sample ID: **1611909-01ADUP**				Units: **none**		Analysis Date: **11/16/2016**			
Client ID:		Run ID: **SAR_161116A**			SeqNo: **4157537**		Prep Date: **11/16/2016**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	2.257	0.010	0	0	0		2.242	0.646	50	

The following samples were analyzed in this batch: 1611728-01A

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

Client: Caerus Oil and Gas LLC
Work Order: 1611728
Project: Starkey 1 Landfarm

QC BATCH REPORT

Batch ID: **94466** Instrument ID **SVMS5** Method: **SW846 8270D**

MBLK Sample ID: **SBLKS1-94466-94466** Units: **µg/Kg** Analysis Date: **11/14/2016 05:42 PM**
Client ID: Run ID: **SVMS5_161114A** SeqNo: **4153728** Prep Date: **11/14/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	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(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	*2783*	0	*3333*	0	*83.5*	*12-100*	0			
Surr: 4-Terphenyl-d14	*2792*	0	*3333*	0	*83.8*	*25-137*	0			
Surr: Nitrobenzene-d5	*2093*	0	*3333*	0	*62.8*	*37-107*	0			

LCS Sample ID: **SLCSS1-94466-94466** Units: **µg/Kg** Analysis Date: **11/14/2016 06:05 PM**
Client ID: Run ID: **SVMS5_161114A** SeqNo: **4153729** Prep Date: **11/14/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	986.7	6.7	1333	0	74	45-110	0			
Anthracene	1107	6.7	1333	0	83.1	55-105	0			
Benzo(a)anthracene	1151	6.7	1333	0	86.3	50-110	0			
Benzo(a)pyrene	1078	6.7	1333	0	80.9	50-110	0			
Benzo(b)fluoranthene	1034	6.7	1333	0	77.6	45-115	0			
Benzo(k)fluoranthene	1107	6.7	1333	0	83.1	45-115	0			
Chrysene	1116	6.7	1333	0	83.7	55-110	0			
Dibenzo(a,h)anthracene	1175	6.7	1333	0	88.2	40-125	0			
Fluoranthene	1098	6.7	1333	0	82.4	55-115	0			
Fluorene	1069	6.7	1333	0	80.2	50-110	0			
Indeno(1,2,3-cd)pyrene	1057	6.7	1333	0	79.3	40-120	0			
Naphthalene	858.7	6.7	1333	0	64.4	40-105	0			
Pyrene	1186	6.7	1333	0	89	45-125	0			
Surr: 2-Fluorobiphenyl	*2645*	0	*3333*	0	*79.4*	*12-100*	0			
Surr: 4-Terphenyl-d14	*2697*	0	*3333*	0	*80.9*	*25-137*	0			
Surr: Nitrobenzene-d5	*2045*	0	*3333*	0	*61.4*	*37-107*	0			

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

Client: Caerus Oil and Gas LLC
Work Order: 1611728
Project: Starkey 1 Landfarm

QC BATCH REPORT

Batch ID: **94466** Instrument ID **SVMS5** Method: **SW846 8270D**

MS Sample ID: **1611649-09B MS** Units: **µg/Kg** Analysis Date: **11/14/2016 09:01 PM**
Client ID: Run ID: **SVMS5_161114A** SeqNo: **4153730** Prep Date: **11/14/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1017	6.4	1279	0	79.5	45-110	0			
Anthracene	1073	6.4	1279	0	83.9	55-105	0			
Benzo(a)anthracene	1093	6.4	1279	0	85.5	50-110	0			
Benzo(a)pyrene	1077	6.4	1279	0	84.2	50-110	0			
Benzo(b)fluoranthene	999.2	6.4	1279	0	78.1	45-115	0			
Benzo(k)fluoranthene	1089	6.4	1279	0	85.2	45-115	0			
Chrysene	1093	6.4	1279	0	85.5	55-110	0			
Dibenzo(a,h)anthracene	1147	6.4	1279	0	89.7	40-125	0			
Fluoranthene	1043	6.4	1279	0	81.6	55-115	0			
Fluorene	1078	6.4	1279	0	84.3	50-110	0			
Indeno(1,2,3-cd)pyrene	1015	6.4	1279	0	79.4	40-120	0			
Naphthalene	871.9	6.4	1279	0	68.2	40-105	0			
Pyrene	1158	6.4	1279	0	90.6	45-125	0			
Surr: 2-Fluorobiphenyl	*2735*	0	*3198*	0	*85.5*	*12-100*	0			
Surr: 4-Terphenyl-d14	*2599*	0	*3198*	0	*81.3*	*25-137*	0			
Surr: Nitrobenzene-d5	*2145*	0	*3198*	0	*67.1*	*37-107*	0			

MSD Sample ID: **1611649-09B MSD** Units: **µg/Kg** Analysis Date: **11/14/2016 09:24 PM**
Client ID: Run ID: **SVMS5_161114A** SeqNo: **4153731** Prep Date: **11/14/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1063	6.6	1325	0	80.2	45-110	1017	4.43	30	
Anthracene	1139	6.6	1325	0	85.9	55-105	1073	5.91	30	
Benzo(a)anthracene	1184	6.6	1325	0	89.3	50-110	1093	7.96	30	
Benzo(a)pyrene	1115	6.6	1325	0	84.1	50-110	1077	3.44	30	
Benzo(b)fluoranthene	1046	6.6	1325	0	78.9	45-115	999.2	4.57	30	
Benzo(k)fluoranthene	1149	6.6	1325	0	86.7	45-115	1089	5.36	30	
Chrysene	1157	6.6	1325	0	87.3	55-110	1093	5.7	30	
Dibenzo(a,h)anthracene	1202	6.6	1325	0	90.7	40-125	1147	4.66	30	
Fluoranthene	1129	6.6	1325	0	85.2	55-115	1043	7.93	30	
Fluorene	1137	6.6	1325	0	85.8	50-110	1078	5.26	30	
Indeno(1,2,3-cd)pyrene	1079	6.6	1325	0	81.4	40-120	1015	6.1	30	
Naphthalene	880.9	6.6	1325	0	66.5	40-105	871.9	1.03	30	
Pyrene	1241	6.6	1325	0	93.7	45-125	1158	6.92	30	
Surr: 2-Fluorobiphenyl	*2825*	0	*3314*	0	*85.2*	*12-100*	2735	*3.23*	*40*	
Surr: 4-Terphenyl-d14	*2833*	0	*3314*	0	*85.5*	*25-137*	2599	*8.61*	*40*	
Surr: Nitrobenzene-d5	*2174*	0	*3314*	0	*65.6*	*37-107*	2145	*1.35*	*40*	

The following samples were analyzed in this batch: 1611728-01A

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

Client: Caerus Oil and Gas LLC
Work Order: 1611728
Project: Starkey 1 Landfarm

QC BATCH REPORT

Batch ID: **94464** Instrument ID **VMS7** Method: **SW8260B**

MBLK Sample ID: **MBLK-94464-94464** Units: **µg/Kg-dry** Analysis Date: **11/13/2016 11:15 A**
Client ID: Run ID: **VMS7_161113A** SeqNo: **4150461** Prep Date: **11/13/2016** 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	*980*	0	*1000*	0	*98*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*963*	0	*1000*	0	*96.3*	*70-130*	0			
Surr: Dibromofluoromethane	*922*	0	*1000*	0	*92.2*	*70-130*	0			
Surr: Toluene-d8	*1008*	0	*1000*	0	*101*	*70-130*	0			

LCS Sample ID: **LCS-94464-94464** Units: **µg/Kg-dry** Analysis Date: **11/13/2016 10:12 A**
Client ID: Run ID: **VMS7_161113A** SeqNo: **4150460** Prep Date: **11/13/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1070	30	1000	0	107	75-125	0			
Ethylbenzene	1048	30	1000	0	105	75-125	0			
m,p-Xylene	2118	60	2000	0	106	80-125	0			
o-Xylene	1055	30	1000	0	106	75-125	0			
Toluene	1046	30	1000	0	105	70-125	0			
Xylenes, Total	3174	90	3000	0	106	75-125	0			
Surr: 1,2-Dichloroethane-d4	*979*	0	*1000*	0	*97.9*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1006*	0	*1000*	0	*101*	*70-130*	0			
Surr: Dibromofluoromethane	*991*	0	*1000*	0	*99.1*	*70-130*	0			
Surr: Toluene-d8	*988*	0	*1000*	0	*98.8*	*70-130*	0			

MS Sample ID: **1611395-02A MS** Units: **µg/Kg-dry** Analysis Date: **11/13/2016 07:48 PM**
Client ID: Run ID: **VMS9_161113A** SeqNo: **4149968** Prep Date: **11/13/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1441	41	1381	0	104	75-125	0			
Ethylbenzene	1464	41	1381	0	106	75-125	0			
m,p-Xylene	2975	83	2762	0	108	80-125	0			
o-Xylene	1470	41	1381	0	106	75-125	0			
Toluene	1442	41	1381	0	104	70-125	0			
Xylenes, Total	4445	120	4143	0	107	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1445*	0	*1381*	0	*105*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1414*	0	*1381*	0	*102*	*70-130*	0			
Surr: Dibromofluoromethane	*1284*	0	*1381*	0	*93*	*70-130*	0			
Surr: Toluene-d8	*1366*	0	*1381*	0	*98.9*	*70-130*	0			

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

Client: Caerus Oil and Gas LLC
Work Order: 1611728
Project: Starkey 1 Landfarm

QC BATCH REPORT

Batch ID: **94464** Instrument ID **VMS7** Method: **SW8260B**

MSD Sample ID: **1611395-02A MSD** Units: **µg/Kg-dry** Analysis Date: **11/13/2016 08:12 PM**
Client ID: Run ID: **VMS9_161113A** SeqNo: **4149969** Prep Date: **11/13/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1473	41	1381	0	107	75-125	1441	2.18	30	
Ethylbenzene	1474	41	1381	0	107	75-125	1464	0.705	30	
m,p-Xylene	2939	83	2762	0	106	80-125	2975	1.24	30	
o-Xylene	1483	41	1381	0	107	75-125	1470	0.888	30	
Toluene	1392	41	1381	0	101	70-125	1442	3.56	30	
Xylenes, Total	4422	120	4143	0	107	75-125	4445	0.53	30	
Surr: 1,2-Dichloroethane-d4	*1481*	0	*1381*	0	*107*	*70-130*	1445	*2.45*	*30*	
Surr: 4-Bromofluorobenzene	*1456*	0	*1381*	0	*105*	*70-130*	1414	*2.93*	*30*	
Surr: Dibromofluoromethane	*1351*	0	*1381*	0	*97.8*	*70-130*	1284	*5.14*	*30*	
Surr: Toluene-d8	*1380*	0	*1381*	0	*99.9*	*70-130*	1366	*1.01*	*30*	

The following samples were analyzed in this batch: 1611728-01A

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

Client: Caerus Oil and Gas LLC
Work Order: 1611728
Project: Starkey 1 Landfarm

QC BATCH REPORT

Batch ID: **94502** Instrument ID **WETCHEM** Method: **SW9045D**

LCS Sample ID: **LCS-94502-94502** Units: **s.u.** Analysis Date: **11/14/2016 04:05 PM**
Client ID: Run ID: **WETCHEM_161114N** SeqNo: **4151908** Prep Date: **11/14/2016** 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: **1611728-01A DUP** Units: **s.u.** Analysis Date: **11/14/2016 04:05 PM**
Client ID: **Starkey 1 Landfarm** Run ID: **WETCHEM_161114N** SeqNo: **4151915** Prep Date: **11/14/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.7	0	0	0	0	0-0	7.73	0.389	20	

DUP Sample ID: **1611924-01A DUP** Units: **s.u.** Analysis Date: **11/14/2016 04:05 PM**
Client ID: Run ID: **WETCHEM_161114N** SeqNo: **4151927** Prep Date: **11/14/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.67	0	0	0	0	0-0	7.75	1.04	20	

The following samples were analyzed in this batch: 1611728-01A

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

Client: Caerus Oil and Gas LLC
Work Order: 1611728
Project: Starkey 1 Landfarm

QC BATCH REPORT

Batch ID: **94571** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: **MBLK-94571-94571** Units: **mg/Kg** Analysis Date: **11/15/2016 05:00 PM**
Client ID: Run ID: **WETCHEM_161115Q** SeqNo: **4155113** Prep Date: **11/14/2016** 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-94571-94571** Units: **mg/Kg** Analysis Date: **11/15/2016 05:00 PM**
Client ID: Run ID: **WETCHEM_161115Q** SeqNo: **4155112** Prep Date: **11/14/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	4.43	1.0	5	0	88.6	80-120	0			

MS Sample ID: **1611420-03A MS** Units: **mg/Kg** Analysis Date: **11/15/2016 05:00 PM**
Client ID: Run ID: **WETCHEM_161115Q** SeqNo: **4155101** Prep Date: **11/14/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	4.222	1.0	5.051	0.02	83.2	75-125	0			

MS Sample ID: **1611420-03A MSI** Units: **mg/Kg** Analysis Date: **11/15/2016 05:00 PM**
Client ID: Run ID: **WETCHEM_161115Q** SeqNo: **4155103** Prep Date: **11/14/2016** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1554	97	1562	0.02	99.5	75-125	0			

MSD Sample ID: **1611420-03A MSD** Units: **mg/Kg** Analysis Date: **11/15/2016 05:00 PM**
Client ID: Run ID: **WETCHEM_161115Q** SeqNo: **4155102** Prep Date: **11/14/2016** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	3.92	1.0	5	0.02	78	75-125	4.222	7.42	20	

The following samples were analyzed in this batch: 1611728-01A

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

Client: Caerus Oil and Gas LLC
Work Order: 1611728
Project: Starkey 1 Landfarm

QC BATCH REPORT

Batch ID: **94649** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP Sample ID: **1611909-01A DUP** Units: **mmhos/cm @25°** Analysis Date: **11/17/2016 04:45 PM**
Client ID: Run ID: **WETCHEM_161117O** SeqNo: **4159987** Prep Date: **11/16/2016** DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.315	0.25	0	0	0		1.2	9.15	50	

The following samples were analyzed in this batch: 1611728-01A

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

Client: Caerus Oil and Gas LLC
Work Order: 1611728
Project: Starkey 1 Landfarm

QC BATCH REPORT

Batch ID: **R200363** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R200363** Units: **% of sample** Analysis Date: **11/10/2016 07:02 PM**
Client ID: Run ID: **MOIST_161110E** SeqNo: **4147365** 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-R200363** Units: **% of sample** Analysis Date: **11/10/2016 07:02 PM**
Client ID: Run ID: **MOIST_161110E** SeqNo: **4147363** 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: **1611649-56B DUP** Units: **% of sample** Analysis Date: **11/10/2016 07:02 PM**
Client ID: Run ID: **MOIST_161110E** SeqNo: **4147327** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	20.85	0.050	0	0	0		19.13	8.6	20	

DUP Sample ID: **1611728-01A DUP** Units: **% of sample** Analysis Date: **11/10/2016 07:02 PM**
Client ID: **Starkey 1 Landfarm** Run ID: **MOIST_161110E** SeqNo: **4147359** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	13.62	0.050	0	0	0		13.11	3.82	20	

The following samples were analyzed in this batch: 1611728-01A

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

ALS Laboratory Group

ALS Holland 3352 128th Ave, Holland MI
855-572-1944 616-399-6070

Chain-of-Custody

Form 202r8

WORKORDER # 1611728

		SAMPLER	Tyler Rust	DATE	11/9/16	PAGE	1	of 1
PROJECT NAME	Starkey 1 Landfarm	SITE ID		TURNAROUND	STD 5 Day	DISPOSAL	(By Lab) or Return to C	
PROJECT No.		EDD FORMAT						
		PURCHASE ORDER						
COMPANY NAME	Caerus Piceance, LLC	BILL TO COMPANY	Caerus Piceance, LLC					
SEND REPORT TO	Jake Janicek	INVOICE ATTN TO	Jake Janicek					
ADDRESS	120 N. Railroad,suite D	ADDRESS	120 N. Railroad,suite D					
CITY / STATE / ZIP	Parachute Co, 81635	CITY / STATE / ZIP	Parachute Co, 81635					
PHONE	970-285-9608	PHONE	970-285-9608					
FAX		FAX						
E-MAIL	jjanicek@caerusoilandgas.com	E-MAIL	invoices@caerusoilandgas.com					

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	TPH/GRO/DRO	BTEX	Table 910 PAH;s	EC	PH	SAR	Benzene	Table 910 Metals
1	Starkey 1 Landfarm	Soil	11/9/16	1126	2	–	–	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: 4.0c

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	[signature]	Tyler Rust	11/9/16	2:30
RECEIVED BY	[signature]	[illegible]	11/9/16	~~2:30~~
RELINQUISHED BY	[signature]	[illegible]	11-9-16	1730
RECEIVED BY	[signature]	Diane F. Shea	11/10/16	0930
RELINQUISHED BY				
RECEIVED BY				

ORIGIN ID:RILA (616) 399-1033
NICK MARTINEZ
ALS ENVIRONMENTAL PARACHUTE
PARACHUTE SERVICE CENTER
127 EAST 1ST. ST
PARACHUTE, CO 81635
UNITED STATES US

SHIP DATE: 09NOV16
ACTWGT: 3.00 LB
CAD: 2264840/INET3790
DIMS: 13x20x14 IN
BILL SENDER

TO SAMPLE RECEIVING
ALS ENVIRONMENTAL HOLLAND LAB
3352 128TH AVE
HOLLAND MI 49424
(616) 399-6070
INV
PO: PARACHUTE
REF: 110916-1
DEPT:

544J3/C8B1/14EB

FedEx Express

REL# 3765346

XX HLMA

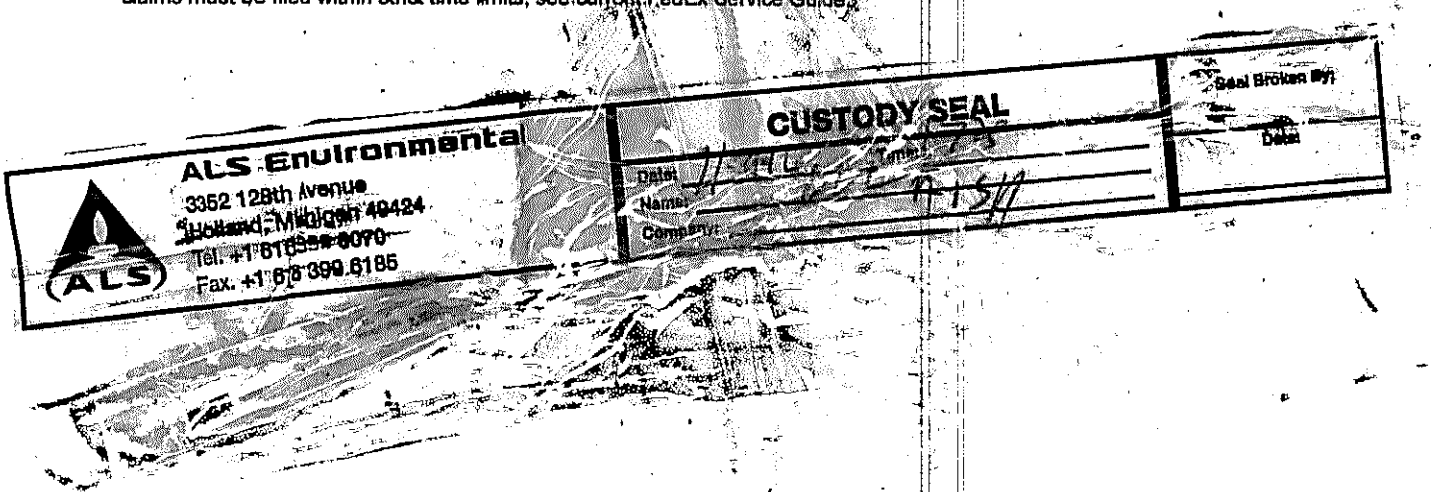
TRK# 0201 7776 7899 6120

THU - 10 NOV 10:30A
PRIORITY OVERNIGHT

49424
GRR
MI-US

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.



ALS Group, USA

Sample Receipt Checklist

Client Name: **CAERUS** Date/Time Received: **10-Nov-16 09:30**

Work Order: **1611728** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 10-Nov-16 (Date) Reviewed by: Chad Whelton (eSignature) 11-Nov-16 (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):	4.0/4.0 c	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	11/10/2016 1:59:24 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:

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,

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: 30-Jul-13

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

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1307799-01	BKGD 1	Soil		7/22/2013 13:45	7/23/2013 10:00	☐
1307799-02	BKGD 2	Soil		7/22/2013 13:35	7/23/2013 10:00	☐
1307799-03	BKGD 3	Soil		7/22/2013 13:30	7/23/2013 10:00	☐

ALS Group USA, Corp

Date: 30-Jul-13

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

QUALIFIERS, ACRONYMS, UNITS

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
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: *30-Jul-13*

Client: HRL Compliance Solutions
Project: Caerus Chevron 41-8D 13-199 7/22/13 **Work Order:** 1307799
Sample ID: BKGD 1 **Lab ID:** 1307799-01
Collection Date: 7/22/2013 01:45 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	**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.

QC BATCH REPORT

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

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: **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: 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: **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
PROJECT No.	13-199	SITE ID		TURNAROUND	5 DAY
		EDD FORMAT		DISPOSAL	~~Return to Lab~~ or Return to Client
COMPANY NAME	HCSI	PURCHASE ORDER			
SEND REPORT TO	Herman Lucero	BILL TO COMPANY	PDC Energy		
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	hlucero@hrlcomp.com	FAX			
		E-MAIL	ewinters@petd.com		

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	SAR/ECL/pH	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: 5.0C

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	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 Shea	7/23/13	1000

ALS Group USA, Corp

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 eSignature 23-Jul-13 Date Reviewed by: Ann Preston eSignature 28-Jul-13 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):	5.0 c		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	7/23/2013 10:56:26 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: (970) 424-4749
Lab Hub, LLC

127 E First Street

PARACHUTE, CO 81635

Origin ID: RILA

FedEx Express

J13111302120326

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

Dims: 25 X 14 X 15 IN

Delivery Address Bar Code

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

SHIP TO: (616) 399-6070 BILL RECIPIENT

Sample recieving
ALS Holland
3352 128TH AVE

HOLLAND, MI 49424

TUE - 23 JUL 3:00P
STANDARD OVERNIGHT

TRK# 0201 **7962 8879 8431**

XX GRRA

49424
MI-US
GRR

518G1/AA04/93AB

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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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