



April 24, 2017

Mr. Phil Hamlin, REM, CSEM
Senior HSE Representative
Kerr-McGee Oil & Gas Onshore LP
1099 18th Street, Suite 1800
Denver, Colorado 80202

**RE: Sump Closure Report
Cannon H 13-33, 33-33
API #05-123-08011, #05-123-25504
Location ID #317946, #309873
Remediation # 10777
SWSW SEC 33-T3N-R65W
Weld County, Colorado**

Dear Mr. Hamlin:

LT Environmental, Inc. (LTE) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct environmental oversight activities at the above-referenced site. The oversight activities included field-screening soil, collecting soil samples, documenting field activities, and reviewing laboratory analytical results.

The objective of the soil sampling was to determine if petroleum hydrocarbon impact to subsurface soil resulted from Kerr-McGee operating two produced water sumps at the site. The soil sampling activities, laboratory analytical results, and conclusions are summarized below. The general site layout, soil sample locations, and sump excavation dimensions are depicted on the Excavation Site Map provided as Figure 1.

On January 26, 2017, following removal of two produced water sumps, soil samples were collected from the sidewalls and base of the sump excavation. The soil samples were field-screened for volatile organic compounds using a photoionization detector (PID). Soil staining, odor, and/or elevated PID headspace readings were not observed or identified through PID screening; the highest PID reading recorded was 6.8 parts per million. Based on the field-screening results, the excavation base soil samples B01@5' and B02@5' were submitted for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) by United States Environmental Protection Agency (USEPA) Method 8260C, TPH-diesel range organics (DRO) and oil range organics (ORO) by USEPA Method 8015C, pH by USEPA Method 9045D, and specific conductance (EC) by USEPA modified Method 9050A. Laboratory analytical results for soil samples B01@5' and B02@5' indicated that BTEX, TPH, pH, and EC levels were compliant with Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 allowable levels. The soil sample analytical results are summarized in Table 1, and the laboratory analytical report is attached.



The sump excavation measured approximately 15 feet north to south by 30 feet east to west and completed to a depth of 5 feet below ground surface. Groundwater and impacted soil were not encountered in the excavation. A liner was not present beneath the sump excavation at this site. The produced water sumps at this facility have been permanently removed, and the excavation area was backfilled with clean fill and contoured to match pre-existing site conditions.

LTE appreciates the opportunity to provide environmental services to Kerr-McGee. Please contact us at (303) 433-9788 if you have any questions regarding this Sump Closure Report or if you require additional information.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in blue ink that reads "Katharine Howe". The signature is fluid and cursive.

Katharine Howe, E.I.
Staff Engineer

A handwritten signature in blue ink that reads "Brian Sulzberger". The signature is fluid and cursive.

Brian Sulzberger, P.E., P.G.
Senior Engineer

Attachments

ATTACHMENTS





IMAGE COURTESY OF GOOGLE EARTH 2015

LEGEND

-  SOIL SAMPLE
-  FORMER FENCE
-  EXCAVATION EXTENT
-  FORMER BERM

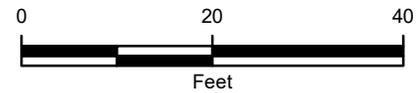


FIGURE 1
EXCAVATION SITE MAP
 CANNON H 33-13, 33-33
 SWSW SEC 33-T3N-R65W
 WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
CANNON H 33-13, 33-33
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Soil Sample ID	Depth (bgs)	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)	GRO (mg/kg)	ORO (mg/kg)	pH (su)	Specific Conductance (mmhos/cm)
B01@5'	5'	01/26/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	8.40	0.0821
B02@5'	5'	01/26/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	8.07	0.0809
COGCC Allowable Levels			0.17	85	100	175	500*	500*	500*	6-9	4

Notes: bgs - below ground surface
COGCC - Colorado Oil and Gas Conservation Commission
DRO - diesel range organics
GRO - gasoline range organics
mg/kg - milligrams per kilogram
mmhos/cm - millimhos per centimeter

NA - not analyzed/not available
ORO - oil range organics
su - standard units
TPH - total petroleum hydrocarbons
* - TPH standard applies to combined DRO-GRO-ORO
< - less than laboratory reporting limit
Bold indicates result exceeds allowable level.



January 27, 2017

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Cannon 33-13, 33-33

Project Number - 014217013

Attached are your analytical results for KMG - Cannon 33-13, 33-33 received by Origins Laboratory, Inc. January 26, 2017. This project is associated with Origins project number X701281-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014217013
Project: KMG - Cannon 33-13, 33-33

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@5'	X701281-01	Soil	January 26, 2017 10:00	01/26/2017 12:06
B02@5'	X701281-02	Soil	January 26, 2017 10:10	01/26/2017 12:06

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Justin Solomon
 Project Number: 014217013
 Project: KMG - Cannon 33-13, 33-33

www.originslaboratory.com

X701281

ORIGINS
 LABORATORY, INC

page 1 of 1

Client: LT Project Manager: Justin Solomon
 Address: 4600 West Ave Project Name: Cannon 33-13, 33-33
Arvada CO 80003 Project Number: 014217013
 Telephone Number: 303 433 9788 Samples Collected By: Cliff Tilly
APC CONTACT PAUL SCHWARZ
 Email Address: JSolomon@ORIGINS.Lab.com / See list APC WO #

Fax: 303.265.9645 | Phone: 303.433.1322 | Denver, CO 80211 | 1725 Eik Place

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	GFTX	TPH	PH		EC	SAR
B01E5'	1/26/17	1000	2	X				X				X	X	X	X	HULL SAR	
B02E5'		1010	2	X				X				X	X	X	X	HULL SAR	
N01E3'		0900	2	X				X				X	X	X	X	HULL	
N02E3'		0910	2	X				X				X	X	X	X		
E01E3'		0920	2	X				X				X	X	X	X		
S01E3'		0930	2	X				X				X	X	X	X		
S02E3'		0940	2	X				X				X	X	X	X		
W01E3'		0950	2	X				X				X	X	X	X		
BG01		1020	2	X				X				X	X	X	X		
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:										Same Day <input checked="" type="checkbox"/>	24 Hr <input type="checkbox"/>
<u>CL</u>	<u>1/26/17</u>	<u>1530</u>	<u>Justin Solomon</u>	<u>1/26/17</u>	<u>1530</u>	48 Hr <input type="checkbox"/>										72 Hr <input type="checkbox"/>	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Standard <input type="checkbox"/>											
			<u>Justin Solomon</u>	<u>1/26/17</u>	<u>1530</u>												

Date Results Needed

Temp Received - 4.1

Origins Laboratory, Inc.

Jefe Pellegrini

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Justin Solomon
 Project Number: 014217013
 Project: KMG - Cannon 33-13, 33-33

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X701281

Client: LTE

Client Project ID: KMG - Cannon 33-13, 33-33

Checklist Completed by: NB

Shipped Via: MD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 1/26

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 14.1 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			PH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

JM
 Reviewed by (Project Manager)

1-26-17
 Date/Time Reviewed

Origins Laboratory, Inc.



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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Justin Solomon
 Project Number: 014217013
 Project: KMG - Cannon 33-13, 33-33

B01@5'
1/26/2017 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701281-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7A2602	01/26/2017	01/26/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 104 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7A2605	01/26/2017	01/26/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
 Surrogate: Toluene-d8 93.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.0 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.40		pH Units	1	B7A2604	"	01/26/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0821		mmhos/cm	"	B7A2606	01/26/2017	"	
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Origins Laboratory, Inc.



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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Justin Solomon
 Project Number: 014217013
 Project: KMG - Cannon 33-13, 33-33

B02@5'

1/26/2017 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701281-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7A2602	01/26/2017	01/26/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 97.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7A2605	01/26/2017	01/26/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "

Surrogate: Toluene-d8 94.1 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 95.6 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.07		pH Units	1	B7A2604	"	01/26/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0809		mmhos/cm	"	B7A2606	01/26/2017	"	
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Origins Laboratory, Inc.



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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Justin Solomon
 Project Number: 014217013
 Project: KMG - Cannon 33-13, 33-33

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A2605 - EPA 5030 (soil)

Blank (B7A2605-BLK1)

Prepared: 01/26/2017 Analyzed: 01/26/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		98.3	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Justin Solomon
 Project Number: 014217013
 Project: KMG - Cannon 33-13, 33-33

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7A2605 - EPA 5030 (soil)

LCS (B7A2605-BS1)

Prepared: 01/26/2017 Analyzed: 01/26/2017

Benzene	0.099	0.002	mg/kg	0.100		99.4	77.1-124			
Toluene	0.100	0.002	"	0.100		99.7	74.5-128			
Ethylbenzene	0.101	0.002	"	0.100		101	66.4-127			
m,p-Xylene	0.200	0.004	"	0.200		99.8	76.6-124			
o-Xylene	0.103	0.002	"	0.100		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Justin Solomon
 Project Number: 014217013
 Project: KMG - Cannon 33-13, 33-33

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7A2605 - EPA 5030 (soil)

Matrix Spike (B7A2605-MS1)	Source: X701282-01			Prepared: 01/26/2017 Analyzed: 01/26/2017						
Benzene	0.108	0.002	mg/kg	0.100	ND	108	71.8-126			
Toluene	0.109	0.002	"	0.100	ND	109	65.1-130			
Ethylbenzene	0.111	0.002	"	0.100	ND	111	62.2-130			
m,p-Xylene	0.219	0.004	"	0.200	ND	109	46.5-137			
o-Xylene	0.111	0.002	"	0.100	ND	111	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Justin Solomon
 Project Number: 014217013
 Project: KMG - Cannon 33-13, 33-33

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7A2605 - EPA 5030 (soil)

Matrix Spike Dup (B7A2605-MSD1)	Source: X701282-01			Prepared: 01/26/2017 Analyzed: 01/26/2017						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126	4.29	11.3	
Toluene	0.104	0.002	"	0.100	ND	104	65.1-130	4.75	15.4	
Ethylbenzene	0.105	0.002	"	0.100	ND	105	62.2-130	4.84	19.6	
m,p-Xylene	0.212	0.004	"	0.200	ND	106	46.5-137	3.15	19.2	
o-Xylene	0.107	0.002	"	0.100	ND	107	54.2-134	3.65	17.9	
Surrogate: 1,2-Dichloroethane-d4	52		ug/kg	62.5		83.9	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

Origins Laboratory, Inc.



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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Justin Solomon
 Project Number: 014217013
 Project: KMG - Cannon 33-13, 33-33

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7A2602 - EPA 3580

Blank (B7A2602-BLK1)

Prepared: 01/26/2017 Analyzed: 01/26/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	64		"	50.0		127	59-131			

LCS (B7A2602-BS1)

Prepared: 01/26/2017 Analyzed: 01/26/2017

Diesel (C10-C28)	944	50.0	mg/kg	1000		94.4	64-121			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	58-124			
Surrogate: o-Terphenyl	48		"	50.0		95.5	59-131			

Matrix Spike (B7A2602-MS1)

Source: X701221-01

Prepared: 01/26/2017 Analyzed: 01/26/2017

Diesel (C10-C28)	902	50.0	mg/kg	1000	188	71.4	53-125			
Residual Range Organics (C28-C40)	881	200	"	1000	77.1	80.4	47-133			
Surrogate: o-Terphenyl	35		"	50.0		70.7	59-131			

Matrix Spike Dup (B7A2602-MSD1)

Source: X701221-01

Prepared: 01/26/2017 Analyzed: 01/26/2017

Diesel (C10-C28)	883	50.0	mg/kg	1000	188	69.5	53-125	2.78	20	
Residual Range Organics (C28-C40)	868	200	"	1000	77.1	79.0	47-133	1.72	20	
Surrogate: o-Terphenyl	36		"	50.0		72.9	59-131			

Origins Laboratory, Inc.



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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Justin Solomon
 Project Number: 014217013
 Project: KMG - Cannon 33-13, 33-33

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7A2604 - NO PREP										
Duplicate (B7A2604-DUP1)		Source: X701212-09			Prepared: 01/26/2017 Analyzed: 01/26/2017					
pH	8.93		pH Units		8.89			0.449	25	
Batch B7A2606 - NO PREP										
Blank (B7A2606-BLK1)		Prepared: 01/26/2017 Analyzed: 01/26/2017								
Specific Conductance (EC)	0.00320		mmhos/cm							
Duplicate (B7A2606-DUP1)		Source: X701281-01			Prepared: 01/26/2017 Analyzed: 01/26/2017					
Specific Conductance (EC)	0.0755		mmhos/cm		0.0821			8.38	25	

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014217013
Project: KMG - Cannon 33-13, 33-33

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.