



August 27, 2015

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - UPRR X 13-06**

**Project Number - [none]**

Attached are your analytical results for KMG - UPRR X 13-06 received by Origins Laboratory, Inc. August 26, 2015. This project is associated with Origins project number X508316-01.

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



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

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**CROSS REFERENCE REPORT**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS6A	X508316-01	Soil	August 26, 2015 14:57	08/26/2015 16:55
SS6B	X508316-02	Soil	August 26, 2015 14:52	08/26/2015 16:55
SS6D	X508316-03	Soil	August 26, 2015 14:48	08/26/2015 16:55
SS6E	X508316-04	Soil	August 26, 2015 14:45	08/26/2015 16:55
SS6F	X508316-05	Soil	August 26, 2015 14:42	08/26/2015 16:55
SS7B	X508316-06	Soil	August 26, 2015 15:03	08/26/2015 16:55
SS7E	X508316-07	Soil	August 26, 2015 15:07	08/26/2015 16:55
SS7F	X508316-08	Soil	August 26, 2015 15:11	08/26/2015 16:55
SS8B	X508316-09	Soil	August 26, 2015 15:05	08/26/2015 16:55
SS8E	X508316-10	Soil	August 26, 2015 15:10	08/26/2015 16:55

Origins Laboratory, Inc.



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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS13B	X508316-11	Soil	August 26, 2015 14:45	08/26/2015 16:55
SS13C	X508316-12	Soil	August 26, 2015 14:47	08/26/2015 16:55
SS12C	X508316-13	Soil	August 26, 2015 14:50	08/26/2015 16:55
SS12B	X508316-14	Soil	August 26, 2015 14:52	08/26/2015 16:55
SS11A	X508316-15	Soil	August 26, 2015 14:56	08/26/2015 16:55
SS11B	X508316-16	Soil	August 26, 2015 14:54	08/26/2015 16:55
SS11C	X508316-17	Soil	August 26, 2015 15:02	08/26/2015 16:55
SS11D	X508316-18	Soil	August 26, 2015 15:05	08/26/2015 16:55
SS10A	X508316-19	Soil	August 26, 2015 15:23	08/26/2015 16:55
SS10B	X508316-20	Soil	August 26, 2015 15:29	08/26/2015 16:55

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John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**CROSS REFERENCE REPORT**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS3D	X508316-21	Soil	August 26, 2015 13:50	08/26/2015 16:55
SS4A	X508316-22	Soil	August 26, 2015 14:07	08/26/2015 16:55
SS4B	X508316-23	Soil	August 26, 2015 14:04	08/26/2015 16:55
SS4C	X508316-24	Soil	August 26, 2015 14:01	08/26/2015 16:55
SS4D	X508316-25	Soil	August 26, 2015 13:56	08/26/2015 16:55
SS5A	X508316-26	Soil	August 26, 2015 14:20	08/26/2015 16:55
SS5B	X508316-27	Soil	August 26, 2015 14:24	08/26/2015 16:55
SS5C	X508316-28	Soil	August 26, 2015 14:28	08/26/2015 16:55
SS5D	X508316-29	Soil	August 26, 2015 14:34	08/26/2015 16:55
SS5E	X508316-30	Soil	August 26, 2015 14:37	08/26/2015 16:55

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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**CROSS REFERENCE REPORT**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS1A	X508316-31	Soil	August 26, 2015 13:16	08/26/2015 16:55
SS1B	X508316-32	Soil	August 26, 2015 13:18	08/26/2015 16:55
SS1C	X508316-33	Soil	August 26, 2015 13:20	08/26/2015 16:55
SS2A	X508316-34	Soil	August 26, 2015 13:36	08/26/2015 16:55
SS2B	X508316-35	Soil	August 26, 2015 13:32	08/26/2015 16:55
SS2C	X508316-36	Soil	August 26, 2015 13:28	08/26/2015 16:55
SS2D	X508316-37	Soil	August 26, 2015 13:25	08/26/2015 16:55
SS3A	X508316-38	Soil	August 26, 2015 13:39	08/26/2015 16:55
SS3B	X508316-39	Soil	August 26, 2015 13:42	08/26/2015 16:55
SS3C	X508316-40	Soil	August 26, 2015 13:47	08/26/2015 16:55

Origins Laboratory, Inc.



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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS10C	X508316-41	Soil	August 26, 2015 15:21	08/26/2015 16:55
SS10D	X508316-42	Soil	August 26, 2015 15:16	08/26/2015 16:55
SS09A	X508316-43	Soil	August 26, 2015 15:20	08/26/2015 16:55
SS09D	X508316-44	Soil	August 26, 2015 15:15	08/26/2015 16:55

Origins Laboratory, Inc.



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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

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page 1 of 5

**XS08316**

**ORIGINS**  
LABORATORY, INC

Client: LTE  
Address: 4600 W 60th Ave  
Arvada Co 80003

Project Manager: John Cocroft  
Project Name: UPRR X 13-06  
Project Number: \_\_\_\_\_

Telephone Number: 303 433 9788  
Email Address: JOECROFT@ITEM.COM

Samples Collected By: CT. K.S. B.C.  
APR 20 # 888 72577  
APC Contact Sam LaRue

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summ	Other	TPH (OIL)	EC	pH	
SS 6A	8/26	1457	2	X					X			X	X	X	Hold SAA
SS 6B	8/26	1452	2	X					X			X	X	X	
SS 6D	8/26	1448	2	X					X			X	X	X	
SS 6E	8/26	1445	2	X					X			X	X	X	
SS 6F	8/26	1442	2	X					X			X	X	X	
SS 7B	8/26	1503	2	X					X			X	X	X	
SS 7E	8/26	1507	2	X					X			X	X	X	
SS 7F	8/26	1511	2	X					X			X	X	X	
SS 8B	8/26	1505	2	X					X			X	X	X	
SS 8E	8/26	1510	2	X					X			X	X	X	
Relinquished By: <u>Brian Smith</u>	Date: <u>8/26/15</u>	Time: <u>1655</u>													Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>
Relinquished By: _____	Date: _____	Time: _____													

Date Results Needed: \_\_\_\_\_  
Temp Received: 58

Origins Laboratory, Inc.

*Jefe Pellegrini*

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

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**XS08316**

Project Manager: John Cocroft  
Project Name: UPRR X 13-06  
Project Number:

Samples Collected By: Kris Shupac / Chris Tracy / Brian Christopher  
APC WO # 88872577  
APC Contract Sam. In RUC

Client: LTL  
Address: 4600 W 60th Ave  
Arvada CO 80003  
Telephone Number: 303-433-9786  
Email Address: JDOYLE@CHENV.COM

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summ. #	Other	GBTEX	TPH	PH	
MW13B	8/24/15	1445	2	X				X	X	X	X	X	X	X	Hold SAR
MW13C		1447	2	X				X	X	X	X	X	X	X	
MW12C		1450	2	X				X	X	X	X	X	X	X	
MW12B		1452	2	X				X	X	X	X	X	X	X	
MW11A		1456	2	X				X	X	X	X	X	X	X	
MW11B		1454	2	X				X	X	X	X	X	X	X	
MW11C		1502	2	X				X	X	X	X	X	X	X	
MW11D		1505	2	X				X	X	X	X	X	X	X	
MW10A		1623	2	X				X	X	X	X	X	X	X	
MW10B		1529	2	X				X	X	X	X	X	X	X	
Relinquished By: <i>John Cocroft</i>	Date: 8/26/15	Time: 1655		Received By: <i>Jeff Smith</i>	Date: 8/26/15	Time: 1655		Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>							

Temp Received: 5.8 Date Results Needed

Origins Laboratory, Inc.

*Jefe Pellegrini*

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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

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X508316

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ORIGINS  
LABORATORY, INC

Client: LTE  
Address: 4600 W 60th Ave  
Arvada CO 80003  
Telephone Number: 303 453 9788  
Email Address: JCocroft@env.com / see list

Project Manager: John Cocroft  
Project Name: UPRR X 13-06  
Project Number:  
Samples Collected By: C.T. KS. BCL  
APC W# 88872577  
APC Contact Sam LaRue

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa	Other	GBTEX	TPH (env)	PH	
SS3D	8/26/15	1350	2	X					X	X	X	X	X	X	Hold SAR
SS4A		1407	2	X					X	X	X	X	X	X	
SS4B		1404	2	X					X	X	X	X	X	X	
SS4C		1401	2	X					X	X	X	X	X	X	
SS4D		1356	2	X					X	X	X	X	X	X	
SS5A		1420	2	X					X	X	X	X	X	X	
SS5B		1424	2	X					X	X	X	X	X	X	
SS5C		1428	2	X					X	X	X	X	X	X	
SS5D		1434	2	X					X	X	X	X	X	X	
SS5E		1437	2	X					X	X	X	X	X	X	
Relinquished By: <u>Ben Unsworth</u>	Date: <u>9/26/15</u>	Time: <u>1655</u>	Received By: <u>[Signature]</u>				Date: <u>8/26/15</u>	Time: <u>1655</u>	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>						

Date Results Needed

Temp Received: 5.8

Origins Laboratory, Inc.

*Jefe Pellegrini*

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

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page 4 of 5

**X508316**

Client: LTE  
Address: 4600 W 60th Ave  
Arvada CO 80003  
Telephone Number: 303 433-9788  
Email Address: JCocroft@Henvi.com

Project Manager: John Cocroft  
Project Name: UPRR X 13-06  
Project Number:  
Samples Collected By: CT KS BC  
APC 40 # 88872577  
APC Contact Sam LaRue

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis			Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Alc Summng	Other	TPH (or Dioxin)		PH
SS4A	9/26/15	1316	2											1
SS1B		1318	2											2
SS1C		1320	2											3
SS2A		1336	2											4
SS2B		1332	2											5
SS2C		1328	2											6
SS2D		1350/25	2											7
SS3A		1339	2											8
SS3B		1342	2											9
SS3C		1347	2											10
Relinquished By: <u>John Cocroft</u>	Date: <u>9/26/15</u>	Time: <u>1655</u>		Received By: <u>John Cocroft</u>			Date: <u>8/26/15</u>	Time: <u>1655</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard					

Temp Received: 5.8  
Date Results Needed

Origins Laboratory, Inc.

*Jefe Pellegrini*

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John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

[illegible]

Origins Laboratory, Inc.

Jeff Pellipini

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: XS08316

Client: LTE

Client Project ID: UPRR X 13-06

Checklist Completed by: Jeff Smith

Shipped Via: H/D

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 8/26/15

Airbill #: NA

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 5.8 °C 1 / \_\_\_\_\_ °C 1 / \_\_\_\_\_ °C (Describe)

Thermometer ID: T203

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<u>8/26/15</u> <u>CS</u>	<input checked="" type="checkbox"/>		All Sample Containers begin with SS. PG 2 and 5 begin with 1722 on COC.
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any): <u>Confirmed with Kelly K. by Phone conversation that DRS/ORS are to be noted as low level. Confirmed with Chad T. by Phone conversation that all Sample IDs on pg 2, 5 of COC begin with SS, not MMS.</u>				
<u>8/26/15</u> <u>Jeff Smith</u>				

<sup>(1)</sup> 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.

Jeff Smith  
Reviewed by (Project Manager)

8/26/15  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jeff Pellegrini*

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS6A

8/26/2015 2:57:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-01 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/26/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	72.9 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"
Surrogate: Toluene-d8	92.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.55		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.336		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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Origins Laboratory, Inc.



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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS6B

8/26/2015 2:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-02 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/26/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl 82.2 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "  
Surrogate: Toluene-d8 93.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

### pH in Soil by EPA 9045D

pH	7.83		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.211		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS6D

8/26/2015 2:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-03 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/26/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl 66.5 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4 123 % 70-130 " " "  
Surrogate: Toluene-d8 93.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

### pH in Soil by EPA 9045D

pH	6.99		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.437		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS6E

8/26/2015 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-04 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/26/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl 66.2 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4 121 % 70-130 " " "  
Surrogate: Toluene-d8 93.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

### pH in Soil by EPA 9045D

pH	7.70		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.321		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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## SS6F

8/26/2015 2:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-05 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/26/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	79.3 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"
Surrogate: Toluene-d8	93.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.63		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.393		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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## SS7B

8/26/2015 3:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-06 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	69.5 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	120 %	70-130			"	"	"
Surrogate: Toluene-d8	92.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.76		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.395		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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## SS7E

8/26/2015 3:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-07 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/26/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	65.8 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130			"	"	"
Surrogate: Toluene-d8	92.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.70		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.275		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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Project: KMG - UPRR X 13-06

## SS7F

8/26/2015 3:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-08 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/26/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	74.8 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	123 %	70-130			"	"	"
Surrogate: Toluene-d8	93.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.76		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.311		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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## SS8B

8/26/2015 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-09 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/26/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	64.5 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"
Surrogate: Toluene-d8	93.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.64		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.222		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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## SS8E

8/26/2015 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-10 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/26/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	67.2 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130			"	"	"
Surrogate: Toluene-d8	94.4 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.61		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.290		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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Origins Laboratory, Inc.



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John Cocroft  
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Project: KMG - UPRR X 13-06

SS13B  
8/26/2015 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-11 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl 53.8 % 59-131 " " " S-DUP

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " " "

Surrogate: Toluene-d8 94.4 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.37		pH Units	1	5H26013	08/26/2015	08/26/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.216		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS13C

8/26/2015 2:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-12 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	08/27/2015

Surrogate: o-Terphenyl	91.2 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"
Surrogate: Toluene-d8	95.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.73		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.131		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

SS12C  
8/26/2015 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-13 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	08/27/2015

Surrogate: o-Terphenyl	102 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"
Surrogate: Toluene-d8	93.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

**pH in Soil by EPA 9045D**

pH	7.55		pH Units	1	5H26013	08/26/2015	08/26/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.175		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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Project Number: [none]  
Project: KMG - UPRR X 13-06

SS12B  
8/26/2015 2:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-14 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	08/27/2015

Surrogate: o-Terphenyl	74.2 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"
Surrogate: Toluene-d8	94.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

**pH in Soil by EPA 9045D**

pH	7.83		pH Units	1	5H26013	08/26/2015	08/26/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0652		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

SS11A  
8/26/2015 2:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-15 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	08/27/2015

Surrogate: o-Terphenyl	95.5 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"
Surrogate: Toluene-d8	93.3 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

**pH in Soil by EPA 9045D**

pH	7.62		pH Units	1	5H26013	08/26/2015	08/26/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.194		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

SS11B  
8/26/2015 2:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-16 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	08/27/2015

Surrogate: o-Terphenyl	95.1 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"
Surrogate: Toluene-d8	93.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

**pH in Soil by EPA 9045D**

pH	7.48		pH Units	1	5H26013	08/26/2015	08/26/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.215		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

SS11C  
8/26/2015 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-17 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	08/27/2015

Surrogate: o-Terphenyl 111 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 94.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.62		pH Units	1	5H26013	08/26/2015	08/26/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.390		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

SS11D  
8/26/2015 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-18 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	61.6 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"
Surrogate: Toluene-d8	94.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

**pH in Soil by EPA 9045D**

pH	7.68		pH Units	1	5H26013	08/26/2015	08/26/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.184		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**SS10A**  
**8/26/2015 3:23:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-19 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl 69.5 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "  
Surrogate: Toluene-d8 93.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.66		pH Units	1	5H26013	08/26/2015	08/26/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.197		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**SS10B**  
**8/26/2015 3:29:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-20 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl 80.1 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4 118 % 70-130 " " "  
Surrogate: Toluene-d8 94.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.80		pH Units	1	5H26013	08/26/2015	08/26/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.209		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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Origins Laboratory, Inc.



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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS3D

8/26/2015 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-21 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	08/27/2015

Surrogate: o-Terphenyl	96.5 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"
Surrogate: Toluene-d8	94.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.61		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.405		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS4A

8/26/2015 2:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-22 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	120	100	"	"	"	"	"

Surrogate: o-Terphenyl	117 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"
Surrogate: Toluene-d8	93.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.54		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.415		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS4B

8/26/2015 2:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-23 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	72.4 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"	"
Surrogate: Toluene-d8	93.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.52		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.608		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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Origins Laboratory, Inc.



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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS4C

8/26/2015 2:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-24 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	94.4 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"	"
Surrogate: Toluene-d8	94.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.52		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.240		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS4D

8/26/2015 1:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-25 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl 16.0 % 59-131 " " " S-DUP

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4 118 % 70-130 " " "

Surrogate: Toluene-d8 94.3 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

### pH in Soil by EPA 9045D

pH	7.56		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.378		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS5A

8/26/2015 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-26 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	77.8 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	124 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.39		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.304		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS5B

8/26/2015 2:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-27 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl 103 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4 130 % 70-130 " " "  
Surrogate: Toluene-d8 103 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

### pH in Soil by EPA 9045D

pH	7.56		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.282		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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4600 West 60th Avenue  
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John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS5C

8/26/2015 2:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-28 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	75.7 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	128 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.48		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.359		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS5D

8/26/2015 2:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-29 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	110	100	"	"	"	"	"

Surrogate: o-Terphenyl	76.4 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	128 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.37		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.280		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS5E

8/26/2015 2:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-30 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	75.0 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	127 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.72		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.221		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**SS1A**  
**8/26/2015 1:16:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-31 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	08/27/2015

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

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4 119 % 70-130 " " "  
Surrogate: Toluene-d8 99.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.61		pH Units	1	5H26013	08/26/2015	08/26/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.291		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS1B

8/26/2015 1:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-32 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	71.6 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130			"	"	"
Surrogate: Toluene-d8	103 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.71		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.222		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS1C

8/26/2015 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-33 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	76.6 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	125 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.45		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.378		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS2A

8/26/2015 1:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-34 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	63.6 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	126 %	70-130			"	"	"
Surrogate: Toluene-d8	104 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.76		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.190		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS2B

8/26/2015 1:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-35 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	63.7 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	123 %	70-130			"	"	"
Surrogate: Toluene-d8	103 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.54		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.314		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS2C

8/26/2015 1:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-36 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl 64.0 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4 121 % 70-130 " " "  
Surrogate: Toluene-d8 103 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 107 % 70-130 " " "

### pH in Soil by EPA 9045D

pH	7.73		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.251		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS2D

8/26/2015 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-37 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	63.5 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/26/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	124 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.57		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.296		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS3A

8/26/2015 1:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-38 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	66.1 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.45		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.374		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS3B

8/26/2015 1:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-39 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	66.4 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	125 %	70-130			"	"	"
Surrogate: Toluene-d8	104 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.41		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.360		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS3C

8/26/2015 1:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-40 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	<b>230</b>	100	"	"	"	"	"

Surrogate: o-Terphenyl	106 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	127 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.28		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	<b>0.316</b>		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**SS10C**  
**8/26/2015 3:21:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-41 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	08/27/2015

Surrogate: o-Terphenyl	96.1 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	123 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"

**pH in Soil by EPA 9045D**

pH	7.60		pH Units	1	5H26013	08/26/2015	08/26/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.296		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

SS10D  
8/26/2015 3:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508316-42 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl 91.6 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4 124 % 70-130 " " "  
Surrogate: Toluene-d8 105 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 108 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.91		pH Units	1	5H26013	08/26/2015	08/26/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.166		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS09A

8/26/2015 3:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-43 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl 70.5 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5H26006	08/26/2015	08/27/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4 127 % 70-130 " " "  
Surrogate: Toluene-d8 108 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 106 % 70-130 " " "

### pH in Soil by EPA 9045D

pH	7.68		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.257		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS09D

8/26/2015 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508316-44 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5H26011	08/26/2015	08/27/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	75.1 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	5H26006	08/26/2015	08/27/2015
Benzene	ND	0.050	"	"	"	"	"
Toluene	ND	0.050	"	"	"	"	"
Ethylbenzene	ND	0.050	"	"	"	"	"
Xylenes, total	ND	0.050	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"
Surrogate: Toluene-d8	106 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.48		pH Units	1	5H26013	08/26/2015	08/26/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.622		mmhos/cm	"	5H26014	08/26/2015	08/27/2015
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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**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 5H26006 - EPA 5030 (soil)**

**Blank (5H26006-BLK1)**

Prepared: 08/26/2015 Analyzed: 08/26/2015

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	69.8		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	64.1		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	64.9		"	62.5		104	70-130			

Origins Laboratory, Inc.



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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**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 5H26006 - EPA 5030 (soil)**

**Blank (5H26006-BLK2)**

Prepared: 08/26/2015 Analyzed: 08/26/2015

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	75.9		ug/kg	62.5		121	70-130			
Surrogate: Toluene-d8	63.5		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	66.1		"	62.5		106	70-130			

Origins Laboratory, Inc.



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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**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 5H26006 - EPA 5030 (soil)**

**Blank (5H26006-BLK3)**

Prepared: 08/26/2015 Analyzed: 08/26/2015

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	77.9		ug/kg	62.5		125	70-130			
Surrogate: Toluene-d8	64.6		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	66.6		"	62.5		107	70-130			

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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**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 5H26006 - EPA 5030 (soil)**

**LCS (5H26006-BS1)**

Prepared: 08/26/2015 Analyzed: 08/26/2015

Benzene	0.106	0.002	mg/kg	0.100		106	77.1-124			
Toluene	0.102	0.002	"	0.100		102	74.5-128			
Ethylbenzene	0.101	0.002	"	0.100		101	66.4-127			
m,p-Xylene	0.199	0.004	"	0.200		99.3	76.6-124			
o-Xylene	0.096	0.002	"	0.100		95.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	67.3		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	64.2		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	64.2		"	62.5		103	70-130			

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John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**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
<b>Batch 5H26006 - EPA 5030 (soil)</b>										
<b>LCS (5H26006-BS2)</b>					Prepared: 08/26/2015 Analyzed: 08/26/2015					
Benzene	0.096	0.002	mg/kg	0.100		95.9	77.1-124			
Toluene	0.092	0.002	"	0.100		92.1	74.5-128			
Ethylbenzene	0.088	0.002	"	0.100		88.1	66.4-127			
m,p-Xylene	0.180	0.004	"	0.200		89.9	76.6-124			
o-Xylene	0.088	0.002	"	0.100		88.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	71.6		ug/kg	62.5		115	70-130			
Surrogate: Toluene-d8	64.4		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	67.5		"	62.5		108	70-130			

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**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
<b>Batch 5H26006 - EPA 5030 (soil)</b>										
<b>LCS (5H26006-BS3)</b>					Prepared: 08/26/2015 Analyzed: 08/26/2015					
Benzene	0.105	0.002	mg/kg	0.100		105	77.1-124			
Toluene	0.105	0.002	"	0.100		105	74.5-128			
Ethylbenzene	0.101	0.002	"	0.100		101	66.4-127			
m,p-Xylene	0.196	0.004	"	0.200		98.2	76.6-124			
o-Xylene	0.101	0.002	"	0.100		101	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	73.0		ug/kg	62.5		117	70-130			
Surrogate: Toluene-d8	64.5		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	66.8		"	62.5		107	70-130			

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**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
<b>Batch 5H26006 - EPA 5030 (soil)</b>										
<b>LCS Dup (5H26006-BSD3)</b>					Prepared: 08/26/2015 Analyzed: 08/26/2015					
Benzene	0.097	0.002	mg/kg	0.100		96.5	77.1-124	8.05	20	
Toluene	0.094	0.002	"	0.100		94.3	74.5-128	10.5	20	
Ethylbenzene	0.088	0.002	"	0.100		88.5	66.4-127	13.0	20	
m,p-Xylene	0.177	0.004	"	0.200		88.5	76.6-124	10.4	20	
o-Xylene	0.091	0.002	"	0.100		90.9	76.6-124	10.1	20	
Surrogate: 1,2-Dichloroethane-d4	73.0		ug/kg	62.5		117	70-130			
Surrogate: Toluene-d8	64.6		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	64.8		"	62.5		104	70-130			

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**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 5H26006 - EPA 5030 (soil)**

Matrix Spike (5H26006-MS1)		Source: X508278-02			Prepared: 08/26/2015 Analyzed: 08/26/2015					
Benzene	0.100	0.002	mg/kg	0.100	ND	99.5	71.8-126			
Toluene	0.098	0.002	"	0.100	ND	98.4	65.1-130			
Ethylbenzene	0.095	0.002	"	0.100	ND	94.9	62.2-130			
m,p-Xylene	0.187	0.004	"	0.200	ND	93.3	46.5-137			
o-Xylene	0.092	0.002	"	0.100	ND	92.4	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	67.5		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	62.9		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64.0		"	62.5		102	70-130			

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**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 5H26006 - EPA 5030 (soil)**

Matrix Spike (5H26006-MS2)		Source: X508311-01			Prepared: 08/26/2015 Analyzed: 08/26/2015					
Benzene	0.099	0.002	mg/kg	0.100	ND	98.5	71.8-126			
Toluene	0.090	0.002	"	0.100	ND	90.4	65.1-130			
Ethylbenzene	0.089	0.002	"	0.100	ND	88.8	62.2-130			
m,p-Xylene	0.172	0.004	"	0.200	ND	85.8	46.5-137			
o-Xylene	0.087	0.002	"	0.100	ND	86.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	73.6		ug/kg	62.5		118	70-130			
Surrogate: Toluene-d8	63.5		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	68.1		"	62.5		109	70-130			

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**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 5H26006 - EPA 5030 (soil)**

Matrix Spike Dup (5H26006-MSD1)		Source: X508278-02			Prepared: 08/26/2015 Analyzed: 08/26/2015					
Benzene	0.098	0.002	mg/kg	0.100	ND	98.3	71.8-126	1.29	11.3	
Toluene	0.096	0.002	"	0.100	ND	96.1	65.1-130	2.39	15.4	
Ethylbenzene	0.088	0.002	"	0.100	ND	87.7	62.2-130	7.91	19.6	
m,p-Xylene	0.184	0.004	"	0.200	ND	91.9	46.5-137	1.49	19.2	
o-Xylene	0.091	0.002	"	0.100	ND	91.0	54.2-134	1.51	17.9	
Surrogate: 1,2-Dichloroethane-d4	69.7		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	64.2		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	65.3		"	62.5		104	70-130			

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**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 5H26006 - EPA 5030 (soil)**

Matrix Spike Dup (5H26006-MSD2)		Source: X508311-01			Prepared: 08/26/2015 Analyzed: 08/26/2015					
Benzene	0.097	0.002	mg/kg	0.100	ND	97.4	71.8-126	1.10	11.3	
Toluene	0.094	0.002	"	0.100	ND	93.7	65.1-130	3.59	15.4	
Ethylbenzene	0.084	0.002	"	0.100	ND	84.5	62.2-130	4.99	19.6	
m,p-Xylene	0.163	0.004	"	0.200	ND	81.4	46.5-137	5.22	19.2	
o-Xylene	0.085	0.002	"	0.100	ND	84.8	54.2-134	2.01	17.9	
Surrogate: 1,2-Dichloroethane-d4	77.2		ug/kg	62.5		123	70-130			
Surrogate: Toluene-d8	65.0		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	66.2		"	62.5		106	70-130			

Origins Laboratory, Inc.



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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## 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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## 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 5H26011 - EPA 3580

#### Blank (5H26011-BLK1)

Prepared: 08/26/2015 Analyzed: 08/26/2015

Diesel (C10-C28) ND 50 mg/kg

Residual Range Organics (C28-C36) ND 200 "

Surrogate: o-Terphenyl 61 " 50.0 122 59-131

#### Blank (5H26011-BLK2)

Prepared: 08/26/2015 Analyzed: 08/26/2015

Diesel (C10-C28) ND 50 mg/kg

Residual Range Organics (C28-C36) ND 200 "

Surrogate: o-Terphenyl 55 " 50.0 110 59-131

#### Blank (5H26011-BLK3)

Prepared: 08/26/2015 Analyzed: 08/26/2015

Diesel (C10-C28) ND 50 mg/kg

Residual Range Organics (C28-C36) ND 200 "

Surrogate: o-Terphenyl 55 " 50.0 109 59-131

#### LCS (5H26011-BS1)

Prepared: 08/26/2015 Analyzed: 08/26/2015

Diesel (C10-C28) 860 50 mg/kg 64-121

Residual Range Organics (C28-C36) 790 200 " 1000 78.8 58-124

Surrogate: o-Terphenyl 44 " 50.0 87.1 59-131

#### LCS (5H26011-BS2)

Prepared: 08/26/2015 Analyzed: 08/26/2015

Diesel (C10-C28) 970 50 mg/kg 64-121

Residual Range Organics (C28-C36) 1000 200 " 1000 102 58-124

Origins Laboratory, Inc.



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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## 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
<b>Batch 5H26011 - EPA 3580</b>										
<b>LCS (5H26011-BS2)</b>					Prepared: 08/26/2015 Analyzed: 08/26/2015					
Surrogate: o-Terphenyl	51		mg/kg	50.0		101	59-131			
<b>LCS (5H26011-BS3)</b>					Prepared: 08/26/2015 Analyzed: 08/26/2015					
Diesel (C10-C28)	920	50	mg/kg				64-121			
Residual Range Organics (C28-C36)	810	200	"	1000		80.6	58-124			
Surrogate: o-Terphenyl	47		"	50.0		94.6	59-131			
<b>Matrix Spike (5H26011-MS1)</b>					<b>Source: X508299-01</b>		Prepared: 08/26/2015 Analyzed: 08/26/2015			
Diesel (C10-C28)	1100	50	mg/kg		120		53-125			
Residual Range Organics (C28-C36)	1100	200	"	1000	72	101	47-133			
Surrogate: o-Terphenyl	50		"	50.0		101	59-131			
<b>Matrix Spike (5H26011-MS2)</b>					<b>Source: X508309-01</b>		Prepared: 08/26/2015 Analyzed: 08/26/2015			
Diesel (C10-C28)	5300	50	mg/kg		5100		53-125			
Residual Range Organics (C28-C36)	5500	200	"	1000	4500	97.6	47-133			
Surrogate: o-Terphenyl	48		"	50.0		95.7	59-131			
<b>Matrix Spike (5H26011-MS3)</b>					<b>Source: X508311-01</b>		Prepared: 08/26/2015 Analyzed: 08/26/2015			
Diesel (C10-C28)	1100	50	mg/kg		55		53-125			
Residual Range Organics (C28-C36)	1100	200	"	1000	110	99.8	47-133			
Surrogate: o-Terphenyl	49		"	50.0		97.1	59-131			
<b>Matrix Spike Dup (5H26011-MSD1)</b>					<b>Source: X508299-01</b>		Prepared: 08/26/2015 Analyzed: 08/26/2015			
Diesel (C10-C28)	1100	50	mg/kg		120		53-125	2.01	20	
Residual Range Organics (C28-C36)	1100	200	"	1000	72	100	47-133	0.429	20	
Surrogate: o-Terphenyl	52		"	50.0		103	59-131			
<b>Matrix Spike Dup (5H26011-MSD2)</b>					<b>Source: X508309-01</b>		Prepared: 08/26/2015 Analyzed: 08/26/2015			

Origins Laboratory, Inc.



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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## 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
<b>Batch 5H26011 - EPA 3580</b>										
<b>Matrix Spike Dup (5H26011-MSD2)</b>			<b>Source: X508309-01</b>		Prepared: 08/26/2015 Analyzed: 08/26/2015					
Diesel (C10-C28)	4800	50	mg/kg		5100		53-125	8.63	20	
Residual Range Organics (C28-C36)	4000	200	"	1000	4500	NR	47-133	30.8	20	QM-4X
Surrogate: o-Terphenyl	49		"	50.0		97.7	59-131			
<b>Matrix Spike Dup (5H26011-MSD3)</b>			<b>Source: X508311-01</b>		Prepared: 08/26/2015 Analyzed: 08/26/2015					
Diesel (C10-C28)	1000	50	mg/kg		55		53-125	2.00	20	
Residual Range Organics (C28-C36)	1100	200	"	1000	110	94.3	47-133	5.13	20	
Surrogate: o-Terphenyl	43		"	50.0		86.9	59-131			

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5H26013 - NO PREP</b>										
<b>Duplicate (5H26013-DUP1)</b>	<b>Source: X508316-01</b>				Prepared: 08/26/2015 Analyzed: 08/26/2015					
pH	7.78		pH Units		7.55			3.00	25	
<b>Duplicate (5H26013-DUP2)</b>	<b>Source: X508316-02</b>				Prepared: 08/26/2015 Analyzed: 08/26/2015					
pH	7.92		pH Units		7.83			1.14	25	
<b>Duplicate (5H26013-DUP3)</b>	<b>Source: X508316-03</b>				Prepared: 08/26/2015 Analyzed: 08/26/2015					
pH	7.06		pH Units		6.99			0.996	25	
<b>Batch 5H26014 - NO PREP</b>										
<b>Blank (5H26014-BLK1)</b>	Prepared: 08/26/2015 Analyzed: 08/27/2015									
Specific Conductance (EC)	0.00340		mmhos/cm							
<b>Blank (5H26014-BLK2)</b>	Prepared: 08/26/2015 Analyzed: 08/27/2015									
Specific Conductance (EC)	0.00340		mmhos/cm							
<b>Blank (5H26014-BLK3)</b>	Prepared: 08/26/2015 Analyzed: 08/27/2015									
Specific Conductance (EC)	0.00340		mmhos/cm							
<b>Duplicate (5H26014-DUP1)</b>	<b>Source: X508316-01</b>				Prepared: 08/26/2015 Analyzed: 08/27/2015					
Specific Conductance (EC)	0.343		mmhos/cm		0.336			2.06	25	
<b>Duplicate (5H26014-DUP2)</b>	<b>Source: X508316-02</b>				Prepared: 08/26/2015 Analyzed: 08/27/2015					
Specific Conductance (EC)	0.208		mmhos/cm		0.211			1.43	25	
<b>Duplicate (5H26014-DUP3)</b>	<b>Source: X508316-03</b>				Prepared: 08/26/2015 Analyzed: 08/27/2015					
Specific Conductance (EC)	0.417		mmhos/cm		0.437			4.68	25	

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

### Notes and Definitions

S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.

QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

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.



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September 02, 2015

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - UPRR X 13-06

Project Number - [none]

Attached are your analytical results for KMG - UPRR X 13-06 received by Origins Laboratory, Inc. September 01, 2015. This project is associated with Origins project number X509012-01.

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



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

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01 @ 1'	X509012-01	Soil	September 1, 2015 11:50	09/01/2015 16:30
N02 @ 1'	X509012-02	Soil	September 1, 2015 11:55	09/01/2015 16:30
E01 @ 1'	X509012-03	Soil	September 1, 2015 12:00	09/01/2015 16:30
W01 @ 1'	X509012-04	Soil	September 1, 2015 12:05	09/01/2015 16:30
S01 @ 3'	X509012-05	Soil	September 1, 2015 12:10	09/01/2015 16:30
S02 @ 3'	X509012-06	Soil	September 1, 2015 12:15	09/01/2015 16:30
B01 @ 5'	X509012-07	Soil	September 1, 2015 12:20	09/01/2015 16:30
B02 @ 2'	X509012-08	Soil	September 1, 2015 12:25	09/01/2015 16:30
SS6C @ 2"	X509012-09	Soil	September 1, 2015 13:05	09/01/2015 16:30
SS7C @ 2"	X509012-10	Soil	September 1, 2015 13:10	09/01/2015 16:30

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.*

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS7D @ 2"	X509012-11	Soil	September 1, 2015 13:15	09/01/2015 16:30
SS8C @ 2"	X509012-12	Soil	September 1, 2015 13:20	09/01/2015 16:30
SS8D @ 2"	X509012-13	Soil	September 1, 2015 13:25	09/01/2015 16:30
SS9B @ 2"	X509012-14	Soil	September 1, 2015 13:30	09/01/2015 16:30

Origins Laboratory, Inc.



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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

www.originslaboratory.com





X509012

page 1 of 2

**ORIGINS**  
LABORATORY, INC

Client: LTE  
Address: 4600 W 60th Ave.  
Telephone Number: 303-433-9788  
Email Address: JohnCocroft@originslab.com

Project Manager: John Cocroft  
Project Name: UPRR X13-06  
Project Number:   
Samples Collected By: Kris Shepherd  
200 #88872577  
Invoice to Sam LaRue

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other	(P)TEX	TOH #	TEC	SV	
N0101'	9/1/15	1150	2	X					X			X	X	X	Hold SAR	1
N0201'		1155	2	X					X			X	X	X		2
E0101'		1200	2	X					X			X	X	X		3
N0101'		1205	2	X					X			X	X	X		4
S0103'		1210	2	X					X			X	X	X		5
S0203'		1215	2	X					X			X	X	X		6
B0105'		1220	2	X					X			X	X	X		7
B0202'		1225	2	X					X			X	X	X		8
SS6002''		1305	2	X					X			X	X	X		9
SS7002''	▽	1310	2	X					X			X	X	X	▽	10
Relinquished By: 	Date: 9/1/15	Time: 1540	Received By: 			Date: 9/1/15			Time: 1540			Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>				
Relinquished By: 	Date: 9/1/15	Time: 1630	Received By: 			Date: 9/1/15			Time: 1630			Standard <input checked="" type="checkbox"/> 15				

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

Origins Laboratory, Inc.

*Jefe Pellegrini*

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.





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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: XSOA017

Client: LTE

Client Project ID: UPRR X13-06

Checklist Completed by: Jace Smith

Shipped Via: HAD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 9/1/15

Airbill #: NA

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

Cooler Number/Temperature: 1 / 6.3 °C      /      °C      /      °C (Describe)

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 <sup>(1)</sup> ?		X		Sampled Same Day
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	X			
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			PH
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			X	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

09-01-15 1657  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jace Pellegrini*

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.

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

N01 @ 1'  
9/1/2015 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-01 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	55	25	mg/kg	1	5101014	09/01/2015	09/01/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	103 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	0.474	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	0.020	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"
Surrogate: Toluene-d8	96.3 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130			"	"	"

**pH in Soil by EPA 9045D**

pH	8.00		pH Units	1	5101015	09/01/2015	09/01/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.412		mmhos/cm	"	5101016	09/01/2015	09/01/2015
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Origins Laboratory, Inc.



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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**N02 @ 1'**  
**9/1/2015 11:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-02 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	<b>44</b>	25	mg/kg	1	5101014	09/01/2015	09/01/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

<i>Surrogate: o-Terphenyl</i>	102 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	<b>0.301</b>	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	<b>0.008</b>	0.002	"	"	"	"	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	121 %	70-130			"	"	"
<i>Surrogate: Toluene-d8</i>	102 %	70-130			"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	103 %	70-130			"	"	"

**pH in Soil by EPA 9045D**

pH	<b>8.24</b>		pH Units	1	5101015	09/01/2015	09/01/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.512</b>		mmhos/cm	"	5101016	09/01/2015	09/01/2015
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Origins Laboratory, Inc.



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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

E01 @ 1'  
9/1/2015 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-03 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5101014	09/01/2015	09/02/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl 46.8 % 59-131 " " S-DUP

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	0.449	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	0.002	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	0.022	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " "

Surrogate: Toluene-d8 100 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.35		pH Units	1	5101015	09/01/2015	09/01/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.458		mmhos/cm	"	5101016	09/01/2015	09/01/2015
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Origins Laboratory, Inc.



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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

W01 @ 1'  
9/1/2015 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-04 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	44	25	mg/kg	1	5101014	09/01/2015	09/01/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	77.1 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	0.278	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	0.011	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"

**pH in Soil by EPA 9045D**

pH	8.41		pH Units	1	5101015	09/01/2015	09/01/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.390		mmhos/cm	"	5101016	09/01/2015	09/01/2015
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Origins Laboratory, Inc.



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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**S01 @ 3'**  
**9/1/2015 12:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-05 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	59	25	mg/kg	1	5101014	09/01/2015	09/01/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	98.0 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	2.39	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"
Surrogate: Toluene-d8	100 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

**pH in Soil by EPA 9045D**

pH	8.20		pH Units	1	5101015	09/01/2015	09/01/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.601		mmhos/cm	"	5101016	09/01/2015	09/01/2015
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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**S02 @ 3'**  
**9/1/2015 12:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-06 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	5101014	09/01/2015	09/02/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl 54.6 % 59-131 " " S-DUP

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	<b>0.256</b>	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " "

Surrogate: Toluene-d8 98.8 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	<b>8.33</b>		pH Units	1	5101015	09/01/2015	09/01/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.446</b>		mmhos/cm	"	5101016	09/01/2015	09/01/2015
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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**B01 @ 5'**  
**9/1/2015 12:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-07 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	<b>65</b>	25	mg/kg	1	5101014	09/01/2015	09/02/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

<i>Surrogate: o-Terphenyl</i>	86.6 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	<b>2.74</b>	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	<b>0.040</b>	0.002	"	"	"	"	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	122 %	70-130			"	"	"
<i>Surrogate: Toluene-d8</i>	103 %	70-130			"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	103 %	70-130			"	"	"

**pH in Soil by EPA 9045D**

pH	<b>8.74</b>		pH Units	1	5101015	09/01/2015	09/01/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.526</b>		mmhos/cm	"	5101016	09/01/2015	09/01/2015
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Arvada CO 80003

John Cocroft  
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Project: KMG - UPRR X 13-06

**B02 @ 2'**  
**9/1/2015 12:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-08 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	33	25	mg/kg	1	5101014	09/01/2015	09/02/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	111 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	0.290	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130			"	"	"
Surrogate: Toluene-d8	100 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"

**pH in Soil by EPA 9045D**

pH	8.51		pH Units	1	5101015	09/01/2015	09/01/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.420		mmhos/cm	"	5101016	09/01/2015	09/01/2015
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Project: KMG - UPRR X 13-06

## SS6C @ 2"

9/1/2015 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X509012-09 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	61	25	mg/kg	1	5101014	09/01/2015	09/02/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	114 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	0.002	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	0.005	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	8.08		pH Units	1	5101015	09/01/2015	09/01/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.222		mmhos/cm	"	5101016	09/01/2015	09/01/2015
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Project: KMG - UPRR X 13-06

## SS7C @ 2"

9/1/2015 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X509012-10 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	120	25	mg/kg	1	5101014	09/01/2015	09/02/2015
Residual Range Organics (C28-C36)	120	100	"	"	"	"	"

Surrogate: o-Terphenyl	113 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	0.002	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	0.013	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"	"
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	7.60		pH Units	1	5101015	09/01/2015	09/01/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.300		mmhos/cm	"	5101016	09/01/2015	09/01/2015
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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**SS7D @ 2"**  
**9/1/2015 1:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-11 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	41	25	mg/kg	1	5101014	09/01/2015	09/02/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

Surrogate: o-Terphenyl	109 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	0.224	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	0.002	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	0.011	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	123 %	70-130			"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	7.88		pH Units	1	5101015	09/01/2015	09/01/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.250		mmhos/cm	"	5101016	09/01/2015	09/01/2015	
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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS8C @ 2"

9/1/2015 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X509012-12 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	92	25	mg/kg	1	5101014	09/01/2015	09/02/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	81.0 %	59-131			"	"	"
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### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	55.3	5.00	mg/kg	25	5101013	09/01/2015	09/01/2015
Benzene	ND	0.050	"	"	"	"	"
Toluene	ND	0.050	"	"	"	"	"
Ethylbenzene	ND	0.050	"	"	"	"	"
Xylenes, total	0.490	0.050	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"
Surrogate: Toluene-d8	97.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

### pH in Soil by EPA 9045D

pH	8.08		pH Units	1	5101015	09/01/2015	09/01/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.284		mmhos/cm	"	5101016	09/01/2015	09/01/2015
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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## SS8D @ 2"

9/1/2015 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X509012-13 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	5101014	09/01/2015	09/02/2015
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl 36.4 % 59-131 " " S-DUP

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	0.451	0.200	mg/kg	1	5101013	09/01/2015	09/01/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	0.008	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " "

Surrogate: Toluene-d8 101 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 99.6 % 70-130 " " "

### pH in Soil by EPA 9045D

pH	8.35		pH Units	1	5101015	09/01/2015	09/01/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.149		mmhos/cm	"	5101016	09/01/2015	09/01/2015
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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**SS9B @ 2"**  
**9/1/2015 1:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X509012-14 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	26	25	mg/kg	1	5101014	09/01/2015	09/02/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

Surrogate: o-Terphenyl	106 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	0.239	0.200	mg/kg	1	5101013	09/01/2015	09/02/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	0.002	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	0.016	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	120 %	70-130			"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	8.16		pH Units	1	5101015	09/01/2015	09/01/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.400		mmhos/cm	"	5101016	09/01/2015	09/01/2015	
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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**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 5101013 - EPA 5030 (soil)**

**Blank (5101013-BLK1)**

Prepared: 09/01/2015 Analyzed: 09/01/2015

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	71.1		ug/kg	62.5		114	70-130			
Surrogate: Toluene-d8	62.1		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	65.4		"	62.5		105	70-130			

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**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
<b>Batch 5101013 - EPA 5030 (soil)</b>										
<b>LCS (5101013-BS1)</b>					Prepared: 09/01/2015 Analyzed: 09/01/2015					
Benzene	0.107	0.002	mg/kg	0.100		107	77.1-124			
Toluene	0.106	0.002	"	0.100		106	74.5-128			
Ethylbenzene	0.100	0.002	"	0.100		99.7	66.4-127			
m,p-Xylene	0.199	0.004	"	0.200		99.5	76.6-124			
o-Xylene	0.102	0.002	"	0.100		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	69.9		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	62.6		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	64.0		"	62.5		102	70-130			

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**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 5101013 - EPA 5030 (soil)**

Matrix Spike (5101013-MS1)		Source: X509005-01			Prepared: 09/01/2015 Analyzed: 09/01/2015					
Benzene	0.091	0.002	mg/kg	0.100	ND	91.4	71.8-126			
Toluene	0.086	0.002	"	0.100	ND	86.5	65.1-130			
Ethylbenzene	0.081	0.002	"	0.100	ND	81.5	62.2-130			
m,p-Xylene	0.164	0.004	"	0.200	ND	81.8	46.5-137			
o-Xylene	0.081	0.002	"	0.100	ND	81.2	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	76.2		ug/kg	62.5		122	70-130			
Surrogate: Toluene-d8	63.4		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62.5		"	62.5		100	70-130			

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**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 5101013 - EPA 5030 (soil)**

Matrix Spike Dup (5101013-MSD1)		Source: X509005-01			Prepared: 09/01/2015 Analyzed: 09/01/2015					
Benzene	0.086	0.002	mg/kg	0.100	ND	86.2	71.8-126	5.85	11.3	
Toluene	0.081	0.002	"	0.100	ND	81.0	65.1-130	6.54	15.4	
Ethylbenzene	0.079	0.002	"	0.100	ND	79.1	62.2-130	2.96	19.6	
m,p-Xylene	0.155	0.004	"	0.200	ND	77.3	46.5-137	5.67	19.2	
o-Xylene	0.078	0.002	"	0.100	ND	78.4	54.2-134	3.53	17.9	
Surrogate: 1,2-Dichloroethane-d4	74.1		ug/kg	62.5		118	70-130			
Surrogate: Toluene-d8	61.8		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	63.9		"	62.5		102	70-130			

Origins Laboratory, Inc.



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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

**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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**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 5I01014 - EPA 3580**

**Blank (5I01014-BLK1)**

Prepared: 09/01/2015 Analyzed: 09/01/2015

Diesel (C10-C28) ND 50 mg/kg

Residual Range Organics (C28-C36) ND 200 "

Surrogate: o-Terphenyl 63 " 50.0 125 59-131

**LCS (5I01014-BS1)**

Prepared: 09/01/2015 Analyzed: 09/01/2015

Diesel (C10-C28) 1100 50 mg/kg 64-121

Residual Range Organics (C28-C36) 880 200 " 1000 87.8 58-124

Surrogate: o-Terphenyl 60 " 50.0 119 59-131

**Matrix Spike (5I01014-MS1)**

**Source: X509005-01**

Prepared: 09/01/2015 Analyzed: 09/01/2015

Diesel (C10-C28) 910 50 mg/kg 36 53-125

Residual Range Organics (C28-C36) 770 200 " 1000 81 68.7 47-133

Surrogate: o-Terphenyl 49 " 50.0 98.9 59-131

**Matrix Spike Dup (5I01014-MSD1)**

**Source: X509005-01**

Prepared: 09/01/2015 Analyzed: 09/01/2015

Diesel (C10-C28) 860 50 mg/kg 36 53-125 5.24 20

Residual Range Organics (C28-C36) 720 200 " 1000 81 63.9 47-133 6.46 20

Surrogate: o-Terphenyl 44 " 50.0 89.0 59-131

Origins Laboratory, Inc.



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LT Environmental, Inc.  
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John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5I01015 - NO PREP</b>										
<b>Duplicate (5I01015-DUP1)</b>		<b>Source: X509012-01</b>			Prepared: 09/01/2015 Analyzed: 09/01/2015					
pH	7.92		pH Units		8.00			1.01	25	
<b>Batch 5I01016 - NO PREP</b>										
<b>Blank (5I01016-BLK1)</b>		Prepared: 09/01/2015 Analyzed: 09/01/2015								
Specific Conductance (EC)	0.00260		mmhos/cm							
<b>Duplicate (5I01016-DUP1)</b>		<b>Source: X509012-01</b>			Prepared: 09/01/2015 Analyzed: 09/01/2015					
Specific Conductance (EC)	0.393		mmhos/cm		0.412			4.72	25	

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

John Cocroft  
Project Number: [none]  
Project: KMG - UPRR X 13-06

### Notes and Definitions

S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.

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.



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