



July 02, 2015

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Mixon Harlold R GU #1

Project Number - 014215151

Attached are your analytical results for KMG - Mixon Harlold R GU #1 received by Origins Laboratory, Inc. July 01, 2015. This project is associated with Origins project number X507023-01.

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: 014215151
Project: KMG - Mixon Harlold R GU #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01 @ 4'	X507023-01	Soil	July 1, 2015 13:25	07/01/2015 16:30
E01 @ 4'	X507023-02	Soil	July 1, 2015 13:30	07/01/2015 16:30
W01 @ 4'	X507023-03	Soil	July 1, 2015 13:35	07/01/2015 16:30
GW01	X507023-04	Water	July 1, 2015 13:40	07/01/2015 16:30

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

John Cocroft
Project Number: 014215151
Project: KMG - Mixon Harlold R GU #1

ORIGINS

LABORATORY, INC





XS07023

www.originslaboratory.com

page 1 of 1

Client: LTE
 Address: 4600 N 60th Ave
 Telephone Number: 303/433-9788
 Email Address: JCOOPER@LTCOM.COM

Project Manager: John Cooper
 Project Name: Wilson Harold R GRI #1
 Project Number: 042151
 Samples Collected By: Kris Shepherd
AFE # 2103081

Sample ID Description	Date Sampled	Time Sampled	# of Containers				Preservative				Matrix				Analysis				Sample Instructions	
							Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sampling Container #	Other	TEX	FE	PH	Other		
A0104	7/1/15	1325	2	X								X			X	X	X	X	Hold AAR	1
E0104	↑	1330	2	X							X				X	X	X		↓	2
L00104	↑	1335	2	X							X				X	X	X		↓	3
G1001	↑	1340	3	X							X				X				Run	4
B0001	↑	1350	2	X							X								Hold All!!!	5
																				6
																				7
																				8
																				9
																				10
Relinquished By: 	Date: 7/1/15	Time: 1605	Received By: 				Time: 7/1/15 1105				Date: 7/1/15 1105				Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/>					
Relinquished By: 	Date: 7/1/15	Time: 1713	Received By: 				Time: 7/1/15 1713				Date: 7/1/15 1713				Turnaround Time: 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>					

Date Results Needed: 7/2/2015 (0800)

Origins Laboratory, Inc.

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

John Cocroft
Project Number: 014215151
Project: KMG - Mixon Harold R GU #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XS07023

Client: LTE

Client Project ID: Mixon Harold R GU #1

Checklist Completed by: Jeff Smith

Shipped Via: HTD

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

Date/time completed: 7/1/15

Airbill #: NA

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

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

Thermometer ID: TXS3

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

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

Reviewed by (Project Manager) Jeff Smith

Date/Time Reviewed 7/1/15

Origins Laboratory, Inc.

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LT Environmental, Inc.
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Arvada CO 80003

John Cocroft
Project Number: 014215151
Project: KMG - Mixon Harlold R GU #1

N01 @ 4'
7/1/2015 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507023-01 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.050	mg/kg	25	5G01009	07/01/2015	07/01/2015
Toluene	ND	0.050	"	"	"	"	"
Ethylbenzene	0.521	0.050	"	"	"	"	"
Xylenes, total	ND	0.050	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
Surrogate: Toluene-d8	109 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"

pH in Soil by EPA 9045D

pH	7.95		pH Units	1	5G01005	07/01/2015	07/01/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0908		mmhos/cm	"	5G01006	07/01/2015	07/01/2015
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TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	25	mg/kg	1	5G01008	07/01/2015	07/02/2015
Diesel (C10-C28)	ND	25	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	84.8 %	65-146			"	"	"
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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: 014215151
Project: KMG - Mixon Harlold R GU #1

E01 @ 4'
7/1/2015 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507023-02 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	5G01009	07/01/2015	07/02/2015
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"
Surrogate: Toluene-d8	106 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

pH in Soil by EPA 9045D

pH	7.49		pH Units	1	5G01005	07/01/2015	07/01/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.154		mmhos/cm	"	5G01006	07/01/2015	07/01/2015
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TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	25	mg/kg	1	5G01008	07/01/2015	07/02/2015
Diesel (C10-C28)	ND	25	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	75.8 %	65-146			"	"	"
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4600 West 60th Avenue
Arvada CO 80003

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Project Number: 014215151
Project: KMG - Mixon Harlold R GU #1

W01 @ 4'
7/1/2015 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507023-03 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.050	mg/kg	25	5G01009	07/01/2015	07/01/2015
Toluene	ND	0.050	"	"	"	"	"
Ethylbenzene	0.136	0.050	"	"	"	"	"
Xylenes, total	0.106	0.050	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"
Surrogate: Toluene-d8	100 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"

pH in Soil by EPA 9045D

pH	7.74		pH Units	1	5G01005	07/01/2015	07/01/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.155		mmhos/cm	"	5G01006	07/01/2015	07/01/2015
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TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	25	mg/kg	1	5G01008	07/01/2015	07/02/2015
Diesel (C10-C28)	81	25	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"

Surrogate: o-Terphenyl	67.0 %	65-146			"	"	"
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4600 West 60th Avenue

Arvada CO 80003

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Project Number: 014215151

Project: KMG - Mixon Harlold R GU #1

GW01

7/1/2015 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507023-04 (Water)

BTEX by EPA 8260C

Benzene	115	10.0	ug/L	10	5F30013	07/01/2015	07/01/2015
Toluene	ND	10.0	"	"	"	"	"
Ethylbenzene	285	10.0	"	"	"	"	"
Xylenes, total	1840	10.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	94.9 %	87.3-113			"	"	"
Surrogate: Toluene-d8	101 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	88.6-111			"	"	"

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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 5F30013 - EPA 5030B (Water)

Blank (5F30013-BLK1)

Prepared: 07/01/2015 Analyzed: 07/01/2015

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5	90.4		87.3-113			
Surrogate: Toluene-d8	62		"	62.5	99.4		90.9-108			
Surrogate: 4-Bromofluorobenzene	68		"	62.5	109		88.6-111			

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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 5F30013 - EPA 5030B (Water)

LCS (5F30013-BS1)

Prepared: 07/01/2015 Analyzed: 07/01/2015

Benzene	54.3	1.0	ug/L	50.0	109	75-126
Toluene	55.5	1.0	"	50.0	111	78.7-126
Ethylbenzene	54.9	1.0	"	50.0	110	80-130
m,p-Xylene	110	2.0	"	100	110	77.2-133
o-Xylene	54.8	1.0	"	50.0	110	77.9-126
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5	96.4	87.3-113
Surrogate: Toluene-d8	63		"	62.5	101	90.9-108
Surrogate: 4-Bromofluorobenzene	67		"	62.5	107	88.6-111

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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 5F30013 - EPA 5030B (Water)

Matrix Spike (5F30013-MS1)		Source: X506355-01			Prepared: 07/01/2015 Analyzed: 07/01/2015					
Benzene	48.6	1.0	ug/L	50.0	ND	97.3	74-130			
Toluene	49.3	1.0	"	50.0	ND	98.6	73-131			
Ethylbenzene	49.8	1.0	"	50.0	ND	99.6	76-132			
m,p-Xylene	99.2	2.0	"	100	ND	99.2	69-139			
o-Xylene	48.7	1.0	"	50.0	ND	97.3	74-131			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.0	87.3-113			
Surrogate: Toluene-d8	63		"	62.5		100	90.9-108			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		108	88.6-111			

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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 5F30013 - EPA 5030B (Water)

Matrix Spike Dup (5F30013-MSD1)		Source: X506355-01			Prepared: 07/01/2015 Analyzed: 07/01/2015					
Benzene	53.3	1.0	ug/L	50.0	ND	107	74-130	9.16	20	
Toluene	53.8	1.0	"	50.0	ND	108	73-131	8.73	20	
Ethylbenzene	52.9	1.0	"	50.0	ND	106	76-132	5.98	20	
m,p-Xylene	106	2.0	"	100	ND	106	69-139	6.74	20	
o-Xylene	52.4	1.0	"	50.0	ND	105	74-131	7.40	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.8	87.3-113			
Surrogate: Toluene-d8	63		"	62.5		101	90.9-108			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	88.6-111			

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Project Number: 014215151

Project: KMG - Mixon Harlold R GU #1

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 5G01009 - EPA 5030 (soil)

Blank (5G01009-BLK1)

Prepared: 07/01/2015 Analyzed: 07/01/2015

Benzene	ND	0.002	mg/kg							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5	110		70-130			
Surrogate: Toluene-d8	66		"	62.5	106		70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5	108		70-130			

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Project Number: 014215151

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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 5G01009 - EPA 5030 (soil)

LCS (5G01009-BS1)

Prepared: 07/01/2015 Analyzed: 07/01/2015

Benzene	0.101	0.002	mg/kg	0.100		101	77.1-124			
Toluene	0.101	0.002	"	0.100		101	74.5-128			
Ethylbenzene	0.094	0.002	"	0.100		93.6	66.4-127			
m,p-Xylene	0.190	0.004	"	0.200		95.1	76.6-124			
o-Xylene	0.092	0.002	"	0.100		92.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5G01009 - EPA 5030 (soil)

Matrix Spike (5G01009-MS1)		Source: X506390-01			Prepared: 07/01/2015 Analyzed: 07/01/2015					
Benzene	0.117	0.002	mg/kg	0.100	ND	117	71.8-126			
Toluene	0.113	0.002	"	0.100	0.020	93.5	65.1-130			
Ethylbenzene	0.106	0.002	"	0.100	ND	106	62.2-130			
m,p-Xylene	0.204	0.004	"	0.200	ND	102	46.5-137			
o-Xylene	0.104	0.002	"	0.100	ND	104	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		113	70-130			
Surrogate: Toluene-d8	68		"	62.5		109	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G01009 - EPA 5030 (soil)										
Matrix Spike Dup (5G01009-MSD1)		Source: X506390-01			Prepared: 07/01/2015 Analyzed: 07/01/2015					
Benzene	0.111	0.002	mg/kg	0.100	ND	111	71.8-126	5.18	11.3	
Toluene	0.109	0.002	"	0.100	0.020	88.9	65.1-130	4.16	15.4	
Ethylbenzene	0.105	0.002	"	0.100	ND	105	62.2-130	0.701	19.6	
m,p-Xylene	0.203	0.004	"	0.200	ND	101	46.5-137	0.658	19.2	
o-Xylene	0.104	0.002	"	0.100	ND	104	54.2-134	0.595	17.9	
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		114	70-130			
Surrogate: Toluene-d8	69		"	62.5		111	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

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: 014215151

Project: KMG - Mixon Harlold R GU #1

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 5G01008 - EPA 3580

Blank (5G01008-BLK1)

Prepared: 07/01/2015 Analyzed: 07/01/2015

Gasoline (C6-C10)	ND	50	mg/kg
Diesel (C10-C28)	ND	50	"
Residual Range Organics (C28-C36)	ND	200	"

Surrogate: o-Terphenyl

44.4

"

50.0

88.8

65-146

LCS (5G01008-BS1)

Prepared: 07/01/2015 Analyzed: 07/01/2015

Gasoline (C6-C10)	880	50	mg/kg	1000	87.6	66.7-119
Diesel (C10-C28)	910	50	"	1000	91.3	70.1-127
Residual Range Organics (C28-C36)	700	200	"	1000	70.4	54.5-139

Surrogate: o-Terphenyl

48.3

"

50.0

96.6

65-146

Matrix Spike (5G01008-MS1)

Source: X506390-01

Prepared: 07/01/2015 Analyzed: 07/01/2015

Gasoline (C6-C10)	880	50	mg/kg	1000	ND	87.8	56.4-132
Diesel (C10-C28)	870	50	"	1000	10	87.0	57.4-138
Residual Range Organics (C28-C36)	660	200	"	1000	ND	66.1	47.7-129

Surrogate: o-Terphenyl

45.6

"

50.0

91.1

65-146

Matrix Spike Dup (5G01008-MSD1)

Source: X506390-01

Prepared: 07/01/2015 Analyzed: 07/01/2015

Gasoline (C6-C10)	900	50	mg/kg	1000	ND	90.4	56.4-132	2.98	22
Diesel (C10-C28)	910	50	"	1000	10	91.3	57.4-138	4.78	18.3
Residual Range Organics (C28-C36)	710	200	"	1000	ND	70.6	47.7-129	6.52	30.1

Surrogate: o-Terphenyl

48.8

"

50.0

97.6

65-146

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: 014215151
Project: KMG - Mixon Harlold R GU #1

Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G01005 - NO PREP										
Duplicate (5G01005-DUP1)	Source: X506374-01				Prepared: 07/01/2015 Analyzed: 07/01/2015					
pH	7.44		pH Units		7.45			0.134	25	
Duplicate (5G01005-DUP2)	Source: X507027-01				Prepared: 07/01/2015 Analyzed: 07/01/2015					
pH	7.54		pH Units		7.62			1.06	25	
Batch 5G01006 - NO PREP										
Blank (5G01006-BLK1)	Prepared: 07/01/2015 Analyzed: 07/01/2015									
Specific Conductance (EC)	0.00260		mmhos/cm							
Blank (5G01006-BLK2)	Prepared: 07/01/2015 Analyzed: 07/01/2015									
Specific Conductance (EC)	0.00260		mmhos/cm							
Duplicate (5G01006-DUP1)	Source: X506374-01				Prepared: 07/01/2015 Analyzed: 07/01/2015					
Specific Conductance (EC)	1.71		mmhos/cm		1.66			3.26	25	
Duplicate (5G01006-DUP2)	Source: X507027-01				Prepared: 07/01/2015 Analyzed: 07/01/2015					
Specific Conductance (EC)	0.338		mmhos/cm		0.363			7.13	25	

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: 014215151

Project: KMG - Mixon Harlold R GU #1

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Noelle Doyle Mathis, President



July 06, 2015

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada

CO

80003

Project Name - KMG - Mixon Harlold R GU #1

Project Number - 014215151

Attached are your analytical results for KMG - Mixon Harlold R GU #1 received by Origins Laboratory, Inc. July 02, 2015. This project is associated with Origins project number X507054-01.

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: 014215151
Project: KMG - Mixon Harlold R GU #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01 @ 4'	X507054-01	Soil	July 2, 2015 10:55	07/02/2015 16:35
E02 @ 4'	X507054-02	Soil	July 2, 2015 11:10	07/02/2015 16:35
W02 @ 4'	X507054-03	Soil	July 2, 2015 11:30	07/02/2015 16:35

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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.

John Cocroft
Project Number: 014215151
Project: KMG - Mixon Harlold R GU #1

ORIGINS

LABORATORY, INC

www.originslaboratory.com

X507054

page | of |

Client: LITE

Address: 4600 W 100TH AVE

ARIZONA COLORADO 80003

303-473-9786

Telephone Number:

Email Address: JCOCKEY@JTEAM.COM

Project Manager:

John Cocke

Project Name:

MAYON HAROLD R GU #1

Project Number:

014215151

Samples Collected By:

RZ

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis			Sample Instructions	
				HCl	HNO ₃	Other	Groundwater	Soil	Air Summary #	Other	GTEX	TPE		FE
S01 @ 4'	7/2/15	1055	2 X				X			X	X	X	HOLD SAR	1
E02 @ 4'	7/2/15	1110	2 X						X		X	X	HOLD SAR	2
W02 @ 4'	7/2/15	1130	2 X				X			X	X	X	HOLD SAR	3
														4
														5
														6
														7
														8
														9
														10
Relinquished By: [Signature]	Date: 7/2/15	Time: 1515		Received By: [Signature]	Date: 7/2/15	Time: 1635		Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/>						
Relinquished By: [Signature]	Date: 7/2/15	Time: 1635		Received By: [Signature]	Date: 7/2/15	Time: 1635		Standard <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>						

Temp Received: 1.2

Date Results Needed

Monday July 6TH

Origins Laboratory, Inc.

Jeff Pelligrini

Jen Pellegrini For Noelle Doyle Mathis, President

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: 014215151
Project: KMG - Mixon Harold R GU #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X507054

Client: LTE

Client Project ID: Mixon Harold R GU #1

Checklist Completed by: Jeff Smith

Shipped Via: H/D

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

Date/time completed: 7/2/15

Airbill #: N/A

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

Cooler Number/Temperature: 1 1 & 2 °C °C °C °C (Describe)

Thermometer ID: TX53

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		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 ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	X			Pl+
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			X	
Additional Comments (if any):				

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

Jeff Smith
Reviewed by (Project Manager)

7/2/15
Date/Time Reviewed

Origins Laboratory, Inc.

Jeff Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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: 014215151
Project: KMG - Mixon Harlold R GU #1

S01 @ 4'

7/2/2015 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507054-01 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	5G02002	07/02/2015	07/05/2015
Toluene	0.004	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	0.007	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	94.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130	"	"	"

pH in Soil by EPA 9045D

pH	7.86	pH Units	1	5G02011	07/02/2015	07/02/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.406	mmhos/cm	"	5G02012	07/02/2015	07/02/2015
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TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	9.6	8.4	25	mg/kg	1	5G02001	07/02/2015	07/05/2015
Diesel (C10-C28)	8.4	6.5	25	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	2.3	100	"	"	"	"	"
Surrogate: o-Terphenyl	98.8 %		65-146			"	"	"

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

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

John Cocroft
Project Number: 014215151
Project: KMG - Mixon Harlold R GU #1

E02 @ 4'

7/2/2015 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507054-02 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	5G02002	07/02/2015	07/02/2015
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130	"	"	"
Surrogate: Toluene-d8	96.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

pH in Soil by EPA 9045D

pH	8.21	pH Units	1	5G02011	07/02/2015	07/02/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.157	mmhos/cm	"	5G02012	07/02/2015	07/02/2015
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TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	11	8.4	25	mg/kg	1	5G02001	07/02/2015	07/02/2015
Diesel (C10-C28)	14	6.5	25	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	2.3	100	"	"	"	"	"
Surrogate: o-Terphenyl	95.4 %	65-146	"	"	"	"	"	"

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

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

John Cocroft
Project Number: 014215151
Project: KMG - Mixon Harlold R GU #1

W02 @ 4'
7/2/2015 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X507054-03 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	5G02002	07/02/2015	07/05/2015
Toluene	0.002	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	0.007	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"
Surrogate: Toluene-d8	97.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

pH in Soil by EPA 9045D

pH	7.99	pH Units	1	5G02011	07/02/2015	07/02/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0955	mmhos/cm	"	5G02012	07/02/2015	07/02/2015
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TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	9.2	8.4	25	mg/kg	1	5G02001	07/02/2015	07/02/2015
Diesel (C10-C28)	12	6.5	25	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	2.3	100	"	"	"	"	"
Surrogate: o-Terphenyl	68.5 %	65-146	"	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

John Cocroft
Project Number: 014215151
Project: KMG - Mixon Harlold R GU #1

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 5G02002 - EPA 5030 (soil)

Blank (5G02002-BLK1)

Prepared: 07/02/2015 Analyzed: 07/02/2015

Benzene	ND	0.002	mg/kg							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5	103		70-130			
Surrogate: Toluene-d8	62		"	62.5	98.4		70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

John Cocroft
Project Number: 014215151
Project: KMG - Mixon Harlold R GU #1

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 5G02002 - EPA 5030 (soil)

LCS (5G02002-BS1)

Prepared: 07/02/2015 Analyzed: 07/02/2015

Benzene	0.089	0.002	mg/kg	0.100		89.2	77.1-124			
Toluene	0.088	0.002	"	0.100		88.2	74.5-128			
Ethylbenzene	0.093	0.002	"	0.100		93.1	66.4-127			
m,p-Xylene	0.187	0.004	"	0.200		93.6	76.6-124			
o-Xylene	0.093	0.002	"	0.100		93.1	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		93.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

John Cocroft
Project Number: 014215151
Project: KMG - Mixon Harlold R GU #1

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 5G02002 - EPA 5030 (soil)

Matrix Spike (5G02002-MS1)		Source: X507037-01			Prepared: 07/02/2015 Analyzed: 07/02/2015					
Benzene	0.092	0.002	mg/kg	0.100	ND	91.6	71.8-126			
Toluene	0.088	0.002	"	0.100	ND	88.0	65.1-130			
Ethylbenzene	0.092	0.002	"	0.100	ND	91.8	62.2-130			
m,p-Xylene	0.184	0.004	"	0.200	ND	91.8	46.5-137			
o-Xylene	0.091	0.002	"	0.100	ND	91.3	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

John Cocroft
Project Number: 014215151
Project: KMG - Mixon Harlold R GU #1

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 5G02002 - EPA 5030 (soil)

Matrix Spike Dup (5G02002-MSD1)		Source: X507037-01			Prepared: 07/02/2015 Analyzed: 07/02/2015					
Benzene	0.090	0.002	mg/kg	0.100	ND	89.8	71.8-126	2.03	11.3	
Toluene	0.089	0.002	"	0.100	ND	88.5	65.1-130	0.634	15.4	
Ethylbenzene	0.091	0.002	"	0.100	ND	91.4	62.2-130	0.437	19.6	
m,p-Xylene	0.184	0.004	"	0.200	ND	92.1	46.5-137	0.272	19.2	
o-Xylene	0.093	0.002	"	0.100	ND	92.6	54.2-134	1.39	17.9	
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.7	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		102	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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: 014215151
Project: KMG - Mixon Harlold R GU #1

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 5G02001 - EPA 3580

Blank (5G02001-BLK1)

Prepared: 07/02/2015 Analyzed: 07/02/2015

Gasoline (C6-C10)	ND	50	mg/kg
Diesel (C10-C28)	14	50	"
Residual Range Organics (C28-C36)	ND	200	"

Surrogate: o-Terphenyl 36.2 " 50.0 72.4 65-146

LCS (5G02001-BS1)

Prepared: 07/02/2015 Analyzed: 07/02/2015

Gasoline (C6-C10)	850	50	mg/kg	1000	84.6	66.7-119
Diesel (C10-C28)	860	50	"	1000	86.5	70.1-127
Residual Range Organics (C28-C36)	650	200	"	1000	65.0	54.5-139

Surrogate: o-Terphenyl 46.6 " 50.0 93.3 65-146

Matrix Spike (5G02001-MS1)

Source: X507037-01

Prepared: 07/02/2015 Analyzed: 07/02/2015

Gasoline (C6-C10)	870	50	mg/kg	1000	17	84.9	56.4-132
Diesel (C10-C28)	960	50	"	1000	16	93.9	57.4-138
Residual Range Organics (C28-C36)	700	200	"	1000	ND	69.8	47.7-129

Surrogate: o-Terphenyl 45.3 " 50.0 90.6 65-146

Matrix Spike Dup (5G02001-MSD1)

Source: X507037-01

Prepared: 07/02/2015 Analyzed: 07/02/2015

Gasoline (C6-C10)	880	50	mg/kg	1000	17	86.3	56.4-132	1.59	22
Diesel (C10-C28)	930	50	"	1000	16	91.5	57.4-138	2.52	18.3
Residual Range Organics (C28-C36)	690	200	"	1000	ND	68.6	47.7-129	1.85	30.1

Surrogate: o-Terphenyl 46.7 " 50.0 93.3 65-146

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

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

John Cocroft
Project Number: 014215151
Project: KMG - Mixon Harlold R GU #1

Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G02011 - NO PREP										
Duplicate (5G02011-DUP1)		Source: X507051-01			Prepared: 07/02/2015 Analyzed: 07/02/2015					
pH	8.38		pH Units		8.73			4.09	25	
Batch 5G02012 - NO PREP										
Blank (5G02012-BLK1)		Prepared: 07/02/2015 Analyzed: 07/02/2015								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (5G02012-DUP1)		Source: X507051-01			Prepared: 07/02/2015 Analyzed: 07/02/2015					
Specific Conductance (EC)	0.0725		mmhos/cm		0.0741			2.18	25	

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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