



February 21, 2014

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Turkey Springs 3C-14HZ  
Pad

Project Number - [none]

Attached are your analytical results for KMG - Turkey Springs 3C-14HZ Pad received by Origins Laboratory, Inc. January 13, 2014. This project is associated with Origins project number X401113-01.

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 - Turkey Springs 3C-14HZ Pad

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TurkeySprings2-23 On Pad	X401113-01	Soil	January 13, 2014 11:15	01/13/2014 15:10
TurkeySprings2-23 Off (0A)	X401113-02	Soil	January 13, 2014 11:25	01/13/2014 15:10
TurkeySprings2-23 Off (0B)	X401113-03	Soil	January 13, 2014 11:27	01/13/2014 15:10
TurkeySprings2-23 Off (0C)	X401113-04	Soil	January 13, 2014 11:30	01/13/2014 15:10
TurkeySprings2-23 Off (0D)	X401113-05	Soil	January 13, 2014 11:32	01/13/2014 15:10
TurkeySprings2-23 Off Comp	X401113-06	Soil	January 13, 2014 11:36	01/13/2014 15:10

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

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

John Cocroft  
Project Number: [none]  
Project: KMG - Turkey Springs 3C-14HZ Pad

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page 1 of 1

X40113

**ORIGINS**  
LABORATORY, INC

Client: LT ENV  
Address: 4600 W 60th AVE  
Telephone Number: 303 433 9788  
Email Address: JCOCRFT@LTENV.COM

Project Manager: JOHN COCRFT  
Project Name: Turkey Springs 3-14HZ  
Project Number:  
Samples Collected By: B. PRASADA

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
TURKEY SPRINGS 2-23 PAD OFF (OA)	1/13/14	1115	3	X					X			TPH BTEX PH, EC, SAR TOTAL ARSENIC TOTAL BROMINE TOTAL CHLORINE	1
TURKEY SPRINGS 2-23 COB OFF (OA)		1125	1										2
TURKEY SPRINGS 2-23 COB OFF (OA)		1127	1										3
TURKEY SPRINGS 2-23 COB OFF (OA)		1130	1										4
TURKEY SPRINGS 2-23 COB OFF (OA)		1132	1										5
TURKEY SPRINGS 2-23 COB OFF (OA)		1136	2										6
TURKEY SPRINGS 2-23 COB OFF (OA)													7
													8
													9
													10

  

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
B. Prasad	1/13/14	1510	J. Cocroft	1/13/14	1510	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>

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

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4600 West 60th Avenue

Arvada CO 80003

John Cocroft

Project Number: [none]

Project: KMG - Turkey Springs 3C-14HZ Pad

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: X401113

Client: LTE

Client Project ID: Turkey Springs 2-23Hz

Checklist Completed by: Jeff Smith

Shipped Via: H/D

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

Date/time completed: 1/13/14 16:07

Airbill #: NA

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

Water

Other:

(Describe)

Cooler Number/Temperature: 4.9 °C

1 °C

1 °C

1 °C

Thermometer ID: T002

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PH
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Soil
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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Soil
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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

Date/Time Reviewed: 1.21.14 2:55

Origins Laboratory, Inc.



Noelle Doyle Mathis, President

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

John Cocroft  
Project Number: [none]  
Project: KMG - Turkey Springs 3C-14HZ Pad

**TurkeySprings2-23 On Pad**  
**1/13/2014 11:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X401113-01 (Soil)**

**BTEX by EPA 8260C**

Benzene	ND	0.004	mg/kg	1	4A14006	01/14/2014	01/14/2014
Toluene	ND	0.004	"	"	"	"	"
Ethylbenzene	ND	0.004	"	"	"	"	"
Xylenes, total	ND	0.004	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"
Surrogate: Toluene-d8	97.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

**Conductance/Specific Conductance by EPA 120.1**

Specific Conductance (EC)	0.246		mmhos/cm	1	4A16012	01/16/2014	01/17/2014
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**Metals by SW846 3050B/6010C**

Arsenic	3.68	2.84	mg/kg dry	1	1359994	01/15/2014	01/16/2014
Barium	170	0.473	"	"	"	"	"

**pH by SW846 9045C/9045D**

pH	8.14	0.100	SU	1	1360037		01/16/2014	H
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**SAR Metals by SW846 3050B/6010C**

Calcium	4000	23.6	mg/kg dry	1	1359994	01/15/2014	01/16/2014
Magnesium	1610	28.4	"	"	"	"	"

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John Cocroft  
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**TurkeySprings2-23 On Pad****1/13/2014 11:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**X401113-01 (Soil)****SAR Metals by SW846 3050B/6010C**

Sodium	234	23.6	mg/kg dry	1	1359994	01/15/2014	01/17/2014
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**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	0.791		none	1	1361171		01/20/2014
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**TCLP Metals by 1311/3010A/6010C As only**

Arsenic	ND	0.300	mg/L	1	1360198	01/15/2014	01/20/2014	U
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**TPH-Carbon Chain by EPA Method 8015C**

Gasoline (C6-C10)	ND	25.0	mg/kg	1	4A15009	01/15/2014	01/16/2014
Diesel (C10-C28)	45.8	25.0	"	"	"	"	"
Residual Range Organics (C28-C36)	106	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	110 %	59-131			"	"	"
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Project Number: [none]  
Project: KMG - Turkey Springs 3C-14HZ Pad

TurkeySprings2-23 Off (0A)

1/13/2014 11:25:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC  
X401113-02 (Soil)

Metals by SW846 3050B/6010C

Arsenic	2.61	2.79	mg/kg dry	1	1359994	01/15/2014	01/16/2014	J
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John Cocroft  
Project Number: [none]  
Project: KMG - Turkey Springs 3C-14HZ Pad

TurkeySprinas2-23 Off (OB)

1/13/2014 11:27:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC  
X401113-03 (Soil)

Metals by SW846 3050B/6010C

Arsenic	2.38	2.81	mg/kg dry	1	1359994	01/15/2014	01/16/2014	J
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Origins Laboratory, Inc.



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John Cocroft  
Project Number: [none]  
Project: KMG - Turkey Springs 3C-14HZ Pad

TurkeySprinas2-23 Off (OC)

1/13/2014 11:30:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC  
X401113-04 (Soil)

Metals by SW846 3050B/6010C

Arsenic	2.38	2.76	mg/kg dry	1	1359994	01/15/2014	01/16/2014	J
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Project Number: [none]  
Project: KMG - Turkey Springs 3C-14HZ Pad

TurkeySprings2-23 Off (OD)

1/13/2014 11:32:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC  
X401113-05 (Soil)

Metals by SW846 3050B/6010C

Arsenic	2.81	2.91	mg/kg dry	1	1359994	01/15/2014	01/16/2014	J
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Project Number: [none]  
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**TurkeySprings2-23 Off Comp****1/13/2014 11:36:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
X401113-06 (Soil)****Conductance/Specific Conductance by EPA 120.1**

Specific Conductance (EC)	0.0400	mmhos/cm	1	4A16012	01/16/2014	01/17/2014
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**Metals by SW846 3050B/6010C**

Arsenic	2.23	2.84	mg/kg dry	1	1359994	01/15/2014	01/16/2014	J
Barium	32.4	0.474	"	"	"	"	"	

**pH by SW846 9045C/9045D**

pH	7.14	0.100	SU	1	1360433		01/17/2014	H
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**SAR Metals by SW846 3050B/6010C**

Calcium	814	23.7	mg/kg dry	1	1359994	01/15/2014	01/16/2014	
Magnesium	514	28.4	"	"	"	"	"	
Sodium	11.8	23.7	"	"	"	"	01/17/2014	J

**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	0.0798	none	1	1361171		01/20/2014
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Project Number: [none]  
Project: KMG - Turkey Springs 3C-14HZ Pad

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 4A14006 - EPA 5030 (soil)

Blank (4A14006-BLK1)

Prepared: 01/14/2014 Analyzed: 01/14/2014

Benzene	ND	0.004	mg/kg							
Toluene	ND	0.004	"							
Ethylbenzene	ND	0.004	"							
Xylenes, total	ND	0.004	"							
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5	104		70-130			
Surrogate: Toluene-d8	64		"	62.5	103		70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5	104		70-130			

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Arvada CO 80003

John Cocroft  
Project Number: [none]  
Project: KMG - Turkey Springs 3C-14HZ Pad

**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 4A14006 - EPA 5030 (soil)

**LCS (4A14006-BS1)**

Prepared: 01/14/2014 Analyzed: 01/14/2014

Benzene	0.2	0.004	mg/kg	0.200		87.0	70-130			
Toluene	0.2	0.004	"	0.200		92.5	70-130			
Ethylbenzene	0.2	0.004	"	0.200		91.2	70-130			
m,p-Xylene	0.4	0.008	"	0.400		103	70-130			
o-Xylene	0.2	0.004	"	0.200		93.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Project Number: [none]  
Project: KMG - Turkey Springs 3C-14HZ Pad

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 4A14006 - EPA 5030 (soil)

Matrix Spike (4A14006-MS1)		Source: X401118-01			Prepared: 01/14/2014 Analyzed: 01/14/2014					
Benzene	0.2	0.004	mg/kg	0.200	ND	90.5	70-130			
Toluene	0.2	0.004	"	0.200	ND	94.9	70-130			
Ethylbenzene	0.2	0.004	"	0.200	ND	89.6	70-130			
m,p-Xylene	0.4	0.008	"	0.400	ND	101	70-130			
o-Xylene	0.2	0.004	"	0.200	ND	91.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	70-130			

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John Cocroft  
Project Number: [none]  
Project: KMG - Turkey Springs 3C-14HZ Pad

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 4A14006 - EPA 5030 (soil)

Matrix Spike Dup (4A14006-MSD1)		Source: X401118-01			Prepared: 01/14/2014 Analyzed: 01/14/2014					
Benzene	0.2	0.004	mg/kg	0.200	ND	94.4	70-130	4.18	20	
Toluene	0.2	0.004	"	0.200	ND	99.5	70-130	4.77	20	
Ethylbenzene	0.2	0.004	"	0.200	ND	94.0	70-130	4.79	20	
m,p-Xylene	0.4	0.008	"	0.400	ND	103	70-130	2.11	20	
o-Xylene	0.2	0.004	"	0.200	ND	92.2	70-130	0.784	20	
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	67		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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4600 West 60th Avenue

Arvada CO 80003

John Cocroft

Project Number: [none]

Project: KMG - Turkey Springs 3C-14HZ Pad

## 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 8015M - 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 4A15009 - EPA 3580

#### Blank (4A15009-BLK1)

Prepared: 01/15/2014 Analyzed: 01/16/2014

Gasoline (C6-C10)	ND	25.0	mg/kg
Diesel (C10-C28)	ND	25.0	"
Residual Range Organics (C28-C36)	ND	50.0	"
TPH - Carbon Chain Total	ND	25.0	"

Surrogate: o-Terphenyl 63.9 g 50.0 128 59-131

#### Blank (4A15009-BLK2)

Prepared: 01/15/2014 Analyzed: 01/16/2014

Gasoline (C6-C10)	ND	25.0	mg/kg
Diesel (C10-C28)	ND	25.0	"
Residual Range Organics (C28-C36)	ND	50.0	"
TPH - Carbon Chain Total	ND	25.0	"

Surrogate: o-Terphenyl 51.6 g 50.0 103 59-131

#### LCS (4A15009-BS1)

Prepared: 01/15/2014 Analyzed: 01/16/2014

Gasoline (C6-C10)	536	25.0	mg/kg	500	107	59-133
Diesel (C10-C28)	583	25.0	"	500	117	64-121
Residual Range Organics (C28-C36)	404	50.0	"	500	80.7	58-124

Surrogate: o-Terphenyl 60.9 g 50.0 122 59-131

#### LCS (4A15009-BS2)

Prepared: 01/15/2014 Analyzed: 01/16/2014

Gasoline (C6-C10)	471	25.0	mg/kg	500	94.1	59-133
Diesel (C10-C28)	517	25.0	"	500	103	64-121

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

John Cocroft  
Project Number: [none]  
Project: KMG - Turkey Springs 3C-14HZ Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4A15009 - EPA 3580										
LCS (4A15009-BS2)					Prepared: 01/15/2014 Analyzed: 01/16/2014					
Residual Range Organics (C28-C36)	426	50.0	mg/kg	500		85.2	58-124			
Surrogate: o-Terphenyl	60.9		g	50.0		122	59-131			
Matrix Spike (4A15009-MS1)					Source: X401089-01		Prepared: 01/15/2014 Analyzed: 01/16/2014			
Gasoline (C6-C10)	496	25.0	mg/kg	500	18.1	95.6	57-139			
Diesel (C10-C28)	531	25.0	"	500	52.0	95.8	53-125			
Residual Range Organics (C28-C36)	392	50.0	"	500	63.5	65.7	47-133			
Surrogate: o-Terphenyl	59.2		g	50.0		118	59-131			
Matrix Spike (4A15009-MS2)					Source: X401088-01		Prepared: 01/15/2014 Analyzed: 01/16/2014			
Gasoline (C6-C10)	535	25.0	mg/kg	500	8.7	105	57-139			
Diesel (C10-C28)	570	25.0	"	500	9.8	112	53-125			
Residual Range Organics (C28-C36)	429	50.0	"	500	69.5	72.0	47-133			
Surrogate: o-Terphenyl	61.8		g	50.0		124	59-131			
Matrix Spike Dup (4A15009-MSD1)					Source: X401089-01		Prepared: 01/15/2014 Analyzed: 01/16/2014			
Gasoline (C6-C10)	540	25.0	mg/kg	500	18.1	104	57-139	8.55	20	
Diesel (C10-C28)	579	25.0	"	500	52.0	105	53-125	8.60	20	
Residual Range Organics (C28-C36)	423	50.0	"	500	63.5	71.8	47-133	7.53	20	
Surrogate: o-Terphenyl	62.9		g	50.0		126	59-131			
Matrix Spike Dup (4A15009-MSD2)					Source: X401088-01		Prepared: 01/15/2014 Analyzed: 01/16/2014			
Gasoline (C6-C10)	551	25.0	mg/kg	500	8.7	109	57-139	3.06	20	
Diesel (C10-C28)	587	25.0	"	500	9.8	115	53-125	2.89	20	
Residual Range Organics (C28-C36)	441	50.0	"	500	69.5	74.4	47-133	2.78	20	
Surrogate: o-Terphenyl	89.9		g	50.0		180	59-131			

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

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

John Cocroft  
Project Number: [none]  
Project: KMG - Turkey Springs 3C-14HZ Pad

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 4A16012 - NO PREP										
Blank (4A16012-BLK1)					Prepared: 01/16/2014 Analyzed: 01/17/2014					
Specific Conductance (EC)	0.00210		mmhos/cm							
Blank (4A16012-BLK2)					Prepared: 01/16/2014 Analyzed: 01/17/2014					
Specific Conductance (EC)	0.00220		mmhos/cm							
Duplicate (4A16012-DUP1)		Source: X401127-01			Prepared: 01/16/2014 Analyzed: 01/17/2014					
Specific Conductance (EC)	0.339		mmhos/cm		0.353			4.05	10	
Duplicate (4A16012-DUP2)		Source: X401127-02			Prepared: 01/16/2014 Analyzed: 01/17/2014					
Specific Conductance (EC)	0.262		mmhos/cm		0.244			7.11	10	

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TCLP Metals by 1311/3010A/6010C As only - Quality Control  
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1360198 - SW846 3010A										
MS (1203018815 S)	Source: 341263001				Prepared: 01/15/2014 Analyzed: 01/20/2014					
Arsenic	6.15	0.300	mg/L	5.00	<0.050	123	75-125			
TB (1203018816-BLK)	Prepared: 01/15/2014 Analyzed: 01/20/2014									
Arsenic	ND	0.300	mg/L		0		-			U
TB (1203019224-BLK)	Prepared: 01/15/2014 Analyzed: 01/20/2014									
Arsenic	ND	0.300	mg/L		0		-			U
BLANK (1203019416-BLK)	Prepared: 01/15/2014 Analyzed: 01/20/2014									
Arsenic	ND	0.300	mg/L		0		-			U
LCS (1203019417-BKS)	Prepared: 01/15/2014 Analyzed: 01/20/2014									
Arsenic	4.46	0.300	mg/L	5.00	0	89.3	80-120			
DUP (1203019418 D)	Source: 341263001				Prepared: 01/15/2014 Analyzed: 01/20/2014					
Arsenic	ND	0.300	mg/L		<0.050		0-20	37.3	20	U

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John Cocroft  
Project Number: [none]  
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**Metals by SW846 3050B/6010C - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1359994 - SW846 3050B										
<b>BLANK (1203019016-BLK)</b>					Prepared: 01/15/2014 Analyzed: 01/16/2014					
Arsenic	ND	2.94	mg/kg		0		-			U
Barium	ND	0.490	"		0		-			U
<b>LCS (1203019017-BKS)</b>					Prepared: 01/15/2014 Analyzed: 01/16/2014					
Arsenic	48.8	2.98	mg/kg	49.7	0	98.3	80-120			
Barium	49.2	0.497	"	49.7	0	99.1	80-120			
<b>DUP (1203019018 D)</b>					<b>Source: 341258001</b>		Prepared: 01/15/2014 Analyzed: 01/16/2014			
Barium	55.2	0.526	mg/kg dry		57.4		0-20	3.90	20	
Arsenic	2.34	3.15	"		2.85		0-20	19.8	20	J
<b>MS (1203019019 S)</b>					<b>Source: 341258001</b>		Prepared: 01/15/2014 Analyzed: 01/17/2014			
Arsenic	55.8	3.03	mg/kg dry	50.6	2.85	105	75-125			
Barium	152	0.506	"	50.6	57.4	187	75-125			
<b>PS (1203020478 S)</b>					<b>Source: 341258001</b>		Prepared: Analyzed: 01/16/2014			
Barium	1.10	0.00528	mg/kg dry	500	57.4	96	80-120			

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pH by SW846 9045C/9045D - Quality Control  
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1360037 -										
DUP (1203019108 D)	Source: 341165003				Prepared: Analyzed: 01/16/2014					
pH	7.86	0.100	SU		7.91		0-10	0.634	10	H
DUP (1203019109 D)	Source: 341165004				Prepared: Analyzed: 01/16/2014					
pH	7.47	0.100	SU		7.47		0-10	0.00	10	H
LCS (1203019110-BKS)	Prepared: Analyzed: 01/16/2014									
pH	6.99	0.100	SU	7.00	0	99.9	99-101			
Batch 1360433 -										
DUP (1203020003 D)	Source: 341259001				Prepared: Analyzed: 01/17/2014					
pH	7.98	0.100	SU		8.36		0-10	4.65	10	H
DUP (1203020004 D)	Source: 341264001				Prepared: Analyzed: 01/17/2014					
pH	8.12	0.100	SU		8.14		0-10	0.246	10	H
LCS (1203020005-BKS)	Prepared: Analyzed: 01/17/2014									
pH	6.98	0.100	SU	7.00	0	99.7	99-101			

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#### Notes and Definitions

U Result not detected above the detection limit

J Greater than the detection limit but less than the reporting limit

H Holding time exceeded

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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