



August 25, 2015

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Sekich 22-19

Project Number - 014215158

Attached are your analytical results for KMG - Sekich 22-19 received by Origins Laboratory, Inc. August 24, 2015. This project is associated with Origins project number X508286-01.

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: 014215158
Project: KMG - Sekich 22-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W01 @ 6.5	X508286-01	Soil	August 24, 2015 13:10	08/24/2015 16:25
W02 @ 6.5	X508286-02	Soil	August 24, 2015 13:55	08/24/2015 16:25
S01 @ 6.5	X508286-04	Soil	August 24, 2015 13:20	08/24/2015 16:25
E01 @ 6.5	X508286-05	Soil	August 24, 2015 13:30	08/24/2015 16:25
N01 @ 6.5	X508286-06	Soil	August 24, 2015 13:40	08/24/2015 16:25

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: 014215158
 Project: KMG - Sekich 22-19

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X508286

Client: LT Environmental

Client Project ID: Sekich 22-19

Checklist Completed by: Joe Henderson

Shipped Via: HD

Date/time completed: 8/24/15 1658

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

Airbill #: 015

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

Cooler Number/Temperature: 1 / 9.9 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			pH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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.

[Signature]
 Reviewed by (Project Manager)

8/24/15
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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LT Environmental, Inc.
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 Arvada CO 80003

John Cocroft
 Project Number: 014215158
 Project: KMG - Sekich 22-19

W01 @ 6.5

8/24/2015 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X508286-01 (Soil)

BTEX by EPA 8260C

Benzene	ND		0.002	mg/kg	1	5H24008	08/24/2015	08/24/2015	
Toluene	ND		0.002	"	"	"	"	"	
Ethylbenzene	0.007		0.002	"	"	"	"	"	
Xylenes, total	0.079		0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	119 %		70-130			"	"	"	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

pH in Soil by EPA 9045D

pH	8.20			pH Units	1	5H24013	08/24/2015	08/24/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.242			mmhos/cm	"	5H24014	"	08/24/2015	
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TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	8.4	25	mg/kg	1	5H24006	08/24/2015	08/25/2015	
Diesel (C10-C28)	ND	6.5	25	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	2.3	100	"	"	"	"	"	
Surrogate: o-Terphenyl	61.7 %		65-146			"	"	"	S-DUP

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: 014215158
 Project: KMG - Sekich 22-19

W02 @ 6.5

8/24/2015 1:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X508286-02 (Soil)

BTEX by EPA 8260C

Benzene	ND		0.002	mg/kg	1	5H24008	08/24/2015	08/24/2015	
Toluene	ND		0.002	"	"	"	"	"	
Ethylbenzene	ND		0.002	"	"	"	"	"	
Xylenes, total	0.006		0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	124 %		70-130			"	"	"	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %		70-130			"	"	"	

pH in Soil by EPA 9045D

pH	8.49			pH Units	1	5H24013	08/24/2015	08/24/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.166			mmhos/cm	"	5H24014	"	08/24/2015	
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TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	8.4	25	mg/kg	1	5H24006	08/24/2015	08/25/2015	
Diesel (C10-C28)	ND	6.5	25	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	2.3	100	"	"	"	"	"	
Surrogate: o-Terphenyl	69.6 %		65-146			"	"	"	

Origins Laboratory, Inc.



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John Cocroft
 Project Number: 014215158
 Project: KMG - Sekich 22-19

S01 @ 6.5

8/24/2015 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X508286-04 (Soil)

BTEX by EPA 8260C

Benzene	0.058		0.050	mg/kg	25	5H24008	08/24/2015	08/24/2015	
Toluene	0.062		0.050	"	"	"	"	"	
Ethylbenzene	6.21		0.050	"	"	"	"	"	
Xylenes, total	71.8		0.498	"	250	"	"	08/24/2015	

Surrogate: 1,2-Dichloroethane-d4	117 %		70-130			"	"	"	
Surrogate: Toluene-d8	108 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %		70-130			"	"	"	

pH in Soil by EPA 9045D

pH	8.90			pH Units	1	5H24013	08/24/2015	08/24/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.303			mmhos/cm	"	5H24014	"	08/24/2015	
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TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	940	8.4	25	mg/kg	1	5H24006	08/24/2015	08/24/2015	
Diesel (C10-C28)	310	6.5	25	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	2.3	100	"	"	"	"	"	
Surrogate: o-Terphenyl	65.7 %		65-146			"	"	"	

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LT Environmental, Inc.
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 Arvada CO 80003

John Cocroft
 Project Number: 014215158
 Project: KMG - Sekich 22-19

E01 @ 6.5

8/24/2015 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X508286-05 (Soil)

BTEX by EPA 8260C

Benzene	ND		0.050	mg/kg	25	5H24008	08/24/2015	08/24/2015	
Toluene	ND		0.050	"	"	"	"	"	
Ethylbenzene	ND		0.050	"	"	"	"	"	
Xylenes, total	ND		0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			"	"	"	
Surrogate: Toluene-d8	104 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	112 %		70-130			"	"	"	

pH in Soil by EPA 9045D

pH	7.88			pH Units	1	5H24013	08/24/2015	08/24/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.365			mmhos/cm	"	5H24014	"	08/24/2015	
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TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	24	8.4	25	mg/kg	1	5H24006	08/24/2015	08/25/2015	
Diesel (C10-C28)	23	6.5	25	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	2.3	100	"	"	"	"	"	
Surrogate: o-Terphenyl	57.4 %		65-146			"	"	"	S-DUP

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N01 @ 6.5

8/24/2015 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X508286-06 (Soil)

BTEX by EPA 8260C

Benzene	ND		0.050	mg/kg	25	5H24008	08/24/2015	08/24/2015	
Toluene	ND		0.050	"	"	"	"	"	
Ethylbenzene	ND		0.050	"	"	"	"	"	
Xylenes, total	ND		0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	113 %		70-130			"	"	"	

pH in Soil by EPA 9045D

pH	9.07			pH Units	1	5H24013	08/24/2015	08/24/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.352			mmhos/cm	"	5H24014	"	08/24/2015	
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TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	48	8.4	25	mg/kg	1	5H24006	08/24/2015	08/24/2015	
Diesel (C10-C28)	24	6.5	25	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	2.3	100	"	"	"	"	"	
Surrogate: o-Terphenyl	85.6 %		65-146			"	"	"	

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

John Cocroft
 Project Number: 014215158
 Project: KMG - Sekich 22-19

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 5H24008 - EPA 5030 (soil)

Blank (5H24008-BLK1)

Prepared: 08/24/2015 Analyzed: 08/24/2015

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	60		"	62.5		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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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 5H24008 - EPA 5030 (soil)

Blank (5H24008-BLK2)

Prepared: 08/24/2015 Analyzed: 08/24/2015

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	102		70-130			
Surrogate: Toluene-d8	61		"	62.5	96.9		70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102		70-130			

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LT Environmental, Inc.
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 Arvada CO 80003

John Cocroft
 Project Number: 014215158
 Project: KMG - Sekich 22-19

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 5H24008 - EPA 5030 (soil)

LCS (5H24008-BS1)

Prepared: 08/24/2015 Analyzed: 08/24/2015

Benzene	0.095	0.002	mg/kg	0.100		95.1	77.1-124			
Toluene	0.092	0.002	"	0.100		91.8	74.5-128			
Ethylbenzene	0.095	0.002	"	0.100		95.1	66.4-127			
m,p-Xylene	0.189	0.004	"	0.200		94.6	76.6-124			
o-Xylene	0.094	0.002	"	0.100		93.6	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		95.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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 Project Number: 014215158
 Project: KMG - Sekich 22-19

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 5H24008 - EPA 5030 (soil)

LCS (5H24008-BS2)

Prepared: 08/24/2015 Analyzed: 08/24/2015

Benzene	0.105	0.002	mg/kg	0.100		105	77.1-124			
Toluene	0.103	0.002	"	0.100		103	74.5-128			
Ethylbenzene	0.105	0.002	"	0.100		105	66.4-127			
m,p-Xylene	0.210	0.004	"	0.200		105	76.6-124			
o-Xylene	0.105	0.002	"	0.100		105	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		95.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	70-130			

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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 5H24008 - EPA 5030 (soil)

Matrix Spike (5H24008-MS1)	Source: X508246-04			Prepared: 08/24/2015 Analyzed: 08/24/2015						
Benzene	0.092	0.002	mg/kg	0.100	ND	91.7	71.8-126			
Toluene	0.086	0.002	"	0.100	ND	86.2	65.1-130			
Ethylbenzene	0.088	0.002	"	0.100	ND	88.0	62.2-130			
m,p-Xylene	0.175	0.004	"	0.200	ND	87.6	46.5-137			
o-Xylene	0.088	0.002	"	0.100	ND	87.7	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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John Cocroft
 Project Number: 014215158
 Project: KMG - Sekich 22-19

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 5H24008 - EPA 5030 (soil)

Matrix Spike (5H24008-MS2)	Source: X508246-09			Prepared: 08/24/2015 Analyzed: 08/24/2015						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126			
Toluene	0.100	0.002	"	0.100	ND	100	65.1-130			
Ethylbenzene	0.102	0.002	"	0.100	ND	102	62.2-130			
m,p-Xylene	0.202	0.004	"	0.200	ND	101	46.5-137			
o-Xylene	0.101	0.002	"	0.100	ND	101	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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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 5H24008 - EPA 5030 (soil)

Matrix Spike Dup (5H24008-MSD1)		Source: X508246-04			Prepared: 08/24/2015 Analyzed: 08/24/2015					
Benzene	0.095	0.002	mg/kg	0.100	ND	95.2	71.8-126	3.77	11.3	
Toluene	0.090	0.002	"	0.100	ND	89.7	65.1-130	3.96	15.4	
Ethylbenzene	0.089	0.002	"	0.100	ND	89.2	62.2-130	1.35	19.6	
m,p-Xylene	0.178	0.004	"	0.200	ND	88.8	46.5-137	1.32	19.2	
o-Xylene	0.089	0.002	"	0.100	ND	89.1	54.2-134	1.61	17.9	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	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: 014215158
 Project: KMG - Sekich 22-19

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 5H24008 - EPA 5030 (soil)

Matrix Spike Dup (5H24008-MSD2)	Source: X508246-09			Prepared: 08/24/2015 Analyzed: 08/24/2015						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126	0.576	11.3	
Toluene	0.100	0.002	"	0.100	ND	100	65.1-130	0.239	15.4	
Ethylbenzene	0.099	0.002	"	0.100	ND	99.4	62.2-130	2.15	19.6	
m,p-Xylene	0.198	0.004	"	0.200	ND	99.1	46.5-137	2.06	19.2	
o-Xylene	0.099	0.002	"	0.100	ND	99.1	54.2-134	1.68	17.9	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	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: 014215158
 Project: KMG - Sekich 22-19

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 5H24006 - EPA 3580

Blank (5H24006-BLK1)

Prepared: 08/24/2015 Analyzed: 08/24/2015

Gasoline (C6-C10)	ND	50	mg/kg							
Diesel (C10-C28)	ND	50	"							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	45.8		"	50.0		91.6	65-146			

LCS (5H24006-BS1)

Prepared: 08/24/2015 Analyzed: 08/24/2015

Gasoline (C6-C10)	750	50	mg/kg	1000		74.8	66.7-119			
Diesel (C10-C28)	800	50	"	1000		80.4	70.1-127			
Residual Range Organics (C28-C36)	780	200	"	1000		77.5	54.5-139			
Surrogate: o-Terphenyl	43.2		"	50.0		86.3	65-146			

Matrix Spike (5H24006-MS1)

Source: X508262-01

Prepared: 08/24/2015 Analyzed: 08/24/2015

Gasoline (C6-C10)	930	50	mg/kg	1000	ND	93.1	56.4-132			
Diesel (C10-C28)	980	50	"	1000	ND	98.0	57.4-138			
Residual Range Organics (C28-C36)	1100	200	"	1000	ND	112	47.7-129			
Surrogate: o-Terphenyl	47.5		"	50.0		95.0	65-146			

Matrix Spike Dup (5H24006-MSD1)

Source: X508262-01

Prepared: 08/24/2015 Analyzed: 08/24/2015

QM-07

Gasoline (C6-C10)	730	50	mg/kg	1000	ND	73.4	56.4-132	23.6	22	
Diesel (C10-C28)	740	50	"	1000	ND	74.1	57.4-138	27.8	18.3	
Residual Range Organics (C28-C36)	760	200	"	1000	ND	75.5	47.7-129	38.9	30.1	
Surrogate: o-Terphenyl	39.3		"	50.0		78.7	65-146			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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LT Environmental, Inc.
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 Arvada CO 80003

John Cocroft
 Project Number: 014215158
 Project: KMG - Sekich 22-19

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 5H24013 - NO PREP										
Duplicate (5H24013-DUP1)		Source: X508286-01			Prepared: 08/24/2015 Analyzed: 08/24/2015					
pH	8.09		pH Units		8.20			1.35	25	
Batch 5H24014 - NO PREP										
Blank (5H24014-BLK1)		Prepared: 08/24/2015 Analyzed: 08/24/2015								
Specific Conductance (EC)	0.00240		mmhos/cm							
Duplicate (5H24014-DUP1)		Source: X508286-01			Prepared: 08/24/2015 Analyzed: 08/24/2015					
Specific Conductance (EC)	0.253		mmhos/cm		0.242			4.44	25	

Origins Laboratory, Inc.



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

John Cocroft
Project Number: 014215158
Project: KMG - Sekich 22-19

Notes and Definitions

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

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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August 26, 2015

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Sekich 22-19

Project Number - 014215158

Attached are your analytical results for KMG - Sekich 22-19 received by Origins Laboratory, Inc. August 25, 2015. This project is associated with Origins project number X508296-01.

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

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

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

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

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

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



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

John Cocroft
Project Number: 014215158
Project: KMG - Sekich 22-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S02 @ 6.5'	X508296-01	Soil	August 25, 2015 13:20	08/25/2015 17:00
E02 @ 6.5'	X508296-02	Soil	August 25, 2015 13:30	08/25/2015 17:00
GW01	X508296-03	Water	August 25, 2015 13:40	08/25/2015 17:00

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014215158
 Project: KMG - Sekich 22-19

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X508296

Client: LTF

Client Project ID: Sekich 22-19

Checklist Completed by: Jeff Smith

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

Date/time completed: 8/25/15

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.4 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: T053

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	X			
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)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	X			PH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
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.		✓		
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): Kelly K. requested by phone conversation to change analyses on oak to CBTEX, DR01020 and remove BTEX, TPH.				
<u>8/25/15 Jeff Smith</u>				

⁽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)

8/25/15
 Date/Time Reviewed

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014215158
 Project: KMG - Sekich 22-19

S02 @ 6.5'
8/25/2015 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X508296-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	5H25009	08/25/2015	08/26/2015	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

Surrogate: *o*-Terphenyl 65.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	147	5.00	mg/kg	25	5H25012	08/25/2015	08/25/2015	
Benzene	ND	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	
Xylenes, total	ND	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " " "
 Surrogate: Toluene-d8 103 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 113 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.13		pH Units	1	5H25014	08/25/2015	08/25/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.139		mmhos/cm	"	5H25015	08/25/2015	08/25/2015	
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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: 014215158
 Project: KMG - Sekich 22-19

E02 @ 6.5'
8/25/2015 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X508296-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50	mg/kg	1	5H25009	08/25/2015	08/26/2015	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

Surrogate: o-Terphenyl 61.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	36.0	5.00	mg/kg	25	5H25012	08/25/2015	08/25/2015	
Benzene	ND	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	
Xylenes, total	0.191	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " "
Surrogate: Toluene-d8 101 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 107 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.60		pH Units	1	5H25014	08/25/2015	08/25/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.219		mmhos/cm	"	5H25015	08/25/2015	08/25/2015	
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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: 014215158
 Project: KMG - Sekich 22-19

GW01
8/25/2015 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X508296-03 (Water)

BTEX by EPA 8260C

Benzene	45.7	4.0	ug/L	4	5H25006	08/25/2015	08/25/2015	
Toluene	ND	4.0	"	"	"	"	"	
Ethylbenzene	42.3	4.0	"	"	"	"	"	
Xylenes, total	3090	20.0	"	20	"	"	08/25/2015	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	84-121			"	"	08/25/2015	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014215158
 Project: KMG - Sekich 22-19

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 5H25006 - EPA 5030B (Water)

Blank (5H25006-BLK1)

Prepared: 08/25/2015 Analyzed: 08/25/2015

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5	96.6		84-121			
Surrogate: Toluene-d8	62		"	62.5	98.7		85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.3		84-114			

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John Cocroft
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 Project: KMG - Sekich 22-19

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 5H25006 - EPA 5030B (Water)

LCS (5H25006-BS1)

Prepared: 08/25/2015 Analyzed: 08/25/2015

Benzene	55.6	1.0	ug/L	50.0		111	75-126			
Toluene	54.2	1.0	"	50.0		108	78.7-126			
Ethylbenzene	56.3	1.0	"	50.0		113	80-130			
m,p-Xylene	112	2.0	"	100		112	77.2-133			
o-Xylene	54.4	1.0	"	50.0		109	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.2	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.4	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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

John Cocroft
 Project Number: 014215158
 Project: KMG - Sekich 22-19

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 5H25006 - EPA 5030B (Water)

Matrix Spike (5H25006-MS1)	Source: X508274-01			Prepared: 08/25/2015 Analyzed: 08/25/2015						
Benzene	48.8	1.0	ug/L	50.0	ND	97.6	74-130			
Toluene	48.1	1.0	"	50.0	ND	96.2	73-131			
Ethylbenzene	49.7	1.0	"	50.0	ND	99.4	76-132			
m,p-Xylene	99.8	2.0	"	100	ND	99.8	69-139			
o-Xylene	51.3	1.0	"	50.0	ND	103	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.3	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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 Arvada CO 80003

John Cocroft
 Project Number: 014215158
 Project: KMG - Sekich 22-19

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 5H25006 - EPA 5030B (Water)

Matrix Spike Dup (5H25006-MSD1)	Source: X508274-01			Prepared: 08/25/2015 Analyzed: 08/25/2015						
Benzene	51.3	1.0	ug/L	50.0	ND	103	74-130	5.02	20	
Toluene	49.6	1.0	"	50.0	ND	99.1	73-131	2.97	20	
Ethylbenzene	50.7	1.0	"	50.0	ND	101	76-132	1.95	20	
m,p-Xylene	100	2.0	"	100	ND	100	69-139	0.340	20	
o-Xylene	51.1	1.0	"	50.0	ND	102	74-131	0.391	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.2	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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

John Cocroft
 Project Number: 014215158
 Project: KMG - Sekich 22-19

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 5H25012 - EPA 5030 (soil)

Blank (5H25012-BLK1)

Prepared: 08/25/2015 Analyzed: 08/25/2015

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	73.6		ug/kg	62.5		118	70-130			
Surrogate: Toluene-d8	64.0		"	62.5		102	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: 014215158
 Project: KMG - Sekich 22-19

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 5H25012 - EPA 5030 (soil)

LCS (5H25012-BS1)

Prepared: 08/25/2015 Analyzed: 08/25/2015

Benzene	0.098	0.002	mg/kg	0.100		97.5	77.1-124			
Toluene	0.096	0.002	"	0.100		95.9	74.5-128			
Ethylbenzene	0.089	0.002	"	0.100		88.8	66.4-127			
m,p-Xylene	0.175	0.004	"	0.200		87.6	76.6-124			
o-Xylene	0.092	0.002	"	0.100		92.0	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	74.8		ug/kg	62.5		120	70-130			
Surrogate: Toluene-d8	64.1		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	65.7		"	62.5		105	70-130			

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014215158
 Project: KMG - Sekich 22-19

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 5H25012 - EPA 5030 (soil)

Matrix Spike (5H25012-MS1)	Source: X508290-01			Prepared: 08/25/2015 Analyzed: 08/25/2015						
Benzene	0.083	0.002	mg/kg	0.100	ND	82.9	71.8-126			
Toluene	0.078	0.002	"	0.100	ND	77.6	65.1-130			
Ethylbenzene	0.071	0.002	"	0.100	ND	70.8	62.2-130			
m,p-Xylene	0.143	0.004	"	0.200	ND	71.6	46.5-137			
o-Xylene	0.071	0.002	"	0.100	ND	71.3	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	76.3		ug/kg	62.5		122	70-130			
Surrogate: Toluene-d8	64.4		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	63.8		"	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: 014215158
 Project: KMG - Sekich 22-19

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 5H25012 - EPA 5030 (soil)

Matrix Spike Dup (5H25012-MSD1)	Source: X508290-01			Prepared: 08/25/2015 Analyzed: 08/25/2015						
Benzene	0.088	0.002	mg/kg	0.100	ND	87.7	71.8-126	5.56	11.3	
Toluene	0.082	0.002	"	0.100	ND	82.5	65.1-130	6.17	15.4	
Ethylbenzene	0.076	0.002	"	0.100	ND	76.0	62.2-130	7.14	19.6	
m,p-Xylene	0.152	0.004	"	0.200	ND	76.2	46.5-137	6.24	19.2	
o-Xylene	0.076	0.002	"	0.100	ND	76.3	54.2-134	6.78	17.9	
Surrogate: 1,2-Dichloroethane-d4	76.9		ug/kg	62.5		123	70-130			
Surrogate: Toluene-d8	62.7		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	67.0		"	62.5		107	70-130			

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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 5H25009 - EPA 3580

Blank (5H25009-BLK1)

Prepared: 08/25/2015 Analyzed: 08/25/2015

Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	51		"	50.0		101	59-131			

LCS (5H25009-BS1)

Prepared: 08/25/2015 Analyzed: 08/25/2015

Diesel (C10-C28)	900	50	mg/kg				64-121			
Residual Range Organics (C28-C36)	1000	200	"	1000		103	58-124			
Surrogate: o-Terphenyl	48		"	50.0		95.7	59-131			

Matrix Spike (5H25009-MS1)

Source: X508292-04

Prepared: 08/25/2015 Analyzed: 08/25/2015

Diesel (C10-C28)	850	50	mg/kg		ND		53-125			
Residual Range Organics (C28-C36)	890	200	"	1000	ND	88.6	47-133			
Surrogate: o-Terphenyl	44		"	50.0		87.9	59-131			

Matrix Spike Dup (5H25009-MSD1)

Source: X508292-04

Prepared: 08/25/2015 Analyzed: 08/25/2015

Diesel (C10-C28)	870	50	mg/kg		ND		53-125	3.12	20	
Residual Range Organics (C28-C36)	900	200	"	1000	ND	89.5	47-133	1.05	20	
Surrogate: o-Terphenyl	40		"	50.0		79.9	59-131			

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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 5H25014 - NO PREP										
Duplicate (5H25014-DUP1)		Source: X508298-01			Prepared: 08/25/2015 Analyzed: 08/25/2015					
pH	7.47		pH Units		8.30			10.5	25	
Batch 5H25015 - NO PREP										
Blank (5H25015-BLK1)		Prepared: 08/25/2015 Analyzed: 08/25/2015								
Specific Conductance (EC)	0.00300		mmhos/cm							
Duplicate (5H25015-DUP1)		Source: X508298-01			Prepared: 08/25/2015 Analyzed: 08/25/2015					
Specific Conductance (EC)	0.367		mmhos/cm		0.370			0.814	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 at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President