

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
NESMITH 15-17, UPRR 42 PAN AM AQ TRUE #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Soil Sample ID	Depth (bgs)	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)	GRO (mg/kg)	ORO (mg/kg)	pH (su)	Specific Conductance (mmhos/cm)
W01@10'	10'	03/06/2017	0.010	<0.002	0.059	0.141	326	8.46	<100	8.58	0.173
E01@10'	10'	03/07/2017	<0.050	<0.050	<0.050	<0.050	39.5	10.4	<100	9.08 †	0.0721
N01@10'	10'	03/07/2017	0.846	<0.050	11.3	4.54	1790	1360	<100	9.32 †	0.180
S01@10'	10'	03/07/2017	<0.002	<0.002	<0.002	<0.002	<25.0	0.418	<100	9.02 †	0.0493
N02@10'	10'	03/09/2017	0.250	<0.050	4.66	46.7	2610	1210	<100	9.21 †	0.145
E02@10'	10'	03/15/2017	2.78	0.565	69.4	17.6	1060	3990	<100	8.90	0.0637
N03@10'	10'	03/15/2017	<0.050	<0.050	<0.050	<0.050	63.5	39.0	<100	9.08 †	0.130
W02@10'	10'	03/15/2017	<0.050	<0.050	0.098	0.056	26.9	19.3	<100	9.56 †	0.217
E03@10'	10'	03/16/2017	0.003	<0.002	0.016	0.241	62.2	10.5	<100	8.96	0.0640
COGCC Allowable Levels			0.17	85	100	175	500*	500*	500*	6-9	4

Notes: bgs - below ground surface
COGCC - Colorado Oil and Gas Conservation Commission
DRO - diesel range organics
GRO - gasoline range organics
mg/kg - milligrams per kilogram
mmhos/cm - millimhos per centimeter
NA - not analyzed/not available

ORO - oil range organics
su - standard units
TPH - total petroleum hydrocarbons
† - Sample was collected below the designated root zone (>3' bgs)
* - TPH standard applies to combined DRO-GRO-ORO
< - less than laboratory reporting limit
Bold indicates result exceeds allowable level.



TABLE 2
GROUNDWATER ANALYTICAL AND FIELD RESULTS
NESMITH 15-17, UPRR 42 PAN AM AQ TRUE #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)
GW01	03/06/2017	1680	<4.00	205	627	13.00
COGCC Allowable Levels		5	1000	700	1400	

Notes: COGCC - Colorado Oil and Gas Conservation Commission
ft bgs - feet below ground surface
NA - not analyzed/not available
NM - not measured

µg/L - micrograms per liter
< - less than laboratory reporting limit
Bold indicates result exceeds allowable level.
Excavation groundwater depth is approximate.





March 07, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Nesmith 15-17

Project Number - 014217038

Attached are your analytical results for KMG - Nesmith 15-17 received by Origins Laboratory, Inc. March 06, 2017. This project is associated with Origins project number Y703077-01.

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

Brian Sulzberger

Project Number: 014217038

Project: KMG - Nesmith 15-17

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W01@10	Y703077-01	Soil	March 6, 2017 15:30	03/06/2017 16:40
GW01	Y703077-02	Water	March 6, 2017 14:30	03/06/2017 16:40

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

ORIGINS

LABORATORY, INC

www.originslaboratory.com

Fax: 303.265.9645 | Phone: 303.433.1322 | Denver, CO 80211

Client: LTE
Address: 4100 W 60TH AVE
ARVING CO 80003
Telephone Number: 303 433 9788
Email Address: Bsalzburger@TENNYSONSRE.LST

y703071

page | of |

Project Manager: Brian Salzbunger
Project Name: Nesmith 15-17
Project Number: 014217038
Samples Collected By: Chad Terrier
WO #69235668
AFC Contact Paul Schwanitz

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	As Summed Container #		
W01E10	3/6/17	1530	1	X					X		(DRY) DTC GATEX EC DTC	1
Gw01	3/6/17	1430	3	X				X			X	2
												3
												4
												5
												6
												7
												8
												9
												10
Relinquished By:	Date: 3/6/17	Time: 1610		Received By: [Signature]				Date: 3-6-17	Time: 1440	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>		
Relinquished By:	Date:	Time:		Received By:				Date:	Time:			

Temp Received- 58°C

Date Results Needed

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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1703077 Client: LTE
Client Project ID: KMG - Nesmith 15-17
Checklist Completed by: DLW Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 3-6-17 1736 Airbill #: NB
Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☒ Water ☐ Other: _____
Cooler Number/Temperature: 1 15.5 °C 1 °C 1 °C (Describe) _____ °C
Thermometer ID: 7203

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"/>	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>part</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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) DLW

3-6-17 1736
Date/Time Reviewed

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

W01@10

3/6/2017 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703077-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	326	25.0	mg/kg	1	B7C0606	03/06/2017	03/06/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.0 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	8.46	0.200	mg/kg	1	B7C0605	03/06/2017	03/06/2017	
Benzene	0.010	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	0.059	0.002	"	"	"	"	"	
Xylenes, total	0.141	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	76.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	144 %	70-130			"	"	"	S-04

pH in Soil by EPA 9045D

pH	8.58		pH Units	1	B7C0608	03/06/2017	03/06/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.173		mmhos/cm	"	B7C0609	03/06/2017	03/06/2017	
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

GW01

3/6/2017 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y703077-02 (Water)

BTEX by EPA 8260C

Benzene	1680	50.0	ug/L	50	B7C0603	03/06/2017	03/06/2017	
Toluene	ND	4.00	"	4	"	"	03/06/2017	U
Ethylbenzene	205	4.00	"	"	"	"	"	
Xylenes, total	627	4.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.6 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %	84-114			"	"	"	

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Arvada CO 80003

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C0603 - EPA 5030B (Water)

Blank (B7C0603-BLK1)

Prepared: 03/06/2017 Analyzed: 03/07/2017

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.0	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.4	84-114			

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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 B7C0603 - EPA 5030B (Water)

Blank (B7C0603-BLK2)

Prepared: 03/06/2017 Analyzed: 03/06/2017

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.1	84-114			

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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 B7C0603 - EPA 5030B (Water)

LCS (B7C0603-BS1)

Prepared: 03/06/2017 Analyzed: 03/07/2017

Benzene	47.7	1.00	ug/L	50.0		95.4	73.3-129			
Toluene	47.0	1.00	"	50.0		94.0	76.2-123			
Ethylbenzene	48.8	1.00	"	50.0		97.6	73.6-130			
m,p-Xylene	95.1	2.00	"	100		95.1	76.1-126			
o-Xylene	48.6	1.00	"	50.0		97.2	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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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 B7C0603 - EPA 5030B (Water)

LCS (B7C0603-BS2)

Prepared: 03/06/2017 Analyzed: 03/06/2017

Benzene	48.3	1.00	ug/L	50.0		96.6	73.3-129			
Toluene	47.5	1.00	"	50.0		95.1	76.2-123			
Ethylbenzene	51.4	1.00	"	50.0		103	73.6-130			
m,p-Xylene	99.6	2.00	"	100		99.6	76.1-126			
o-Xylene	48.7	1.00	"	50.0		97.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.6	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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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 B7C0603 - EPA 5030B (Water)

Matrix Spike (B7C0603-MS1)		Source: Y703002-03			Prepared: 03/06/2017 Analyzed: 03/06/2017					
Benzene	52.2	1.00	ug/L	50.0	ND	104	74-130			
Toluene	54.2	1.00	"	50.0	ND	108	73-131			
Ethylbenzene	56.0	1.00	"	50.0	ND	112	76-132			
m,p-Xylene	108	2.00	"	100	ND	108	69-139			
o-Xylene	51.8	1.00	"	50.0	ND	104	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		96.9	84-121			
Surrogate: Toluene-d8	65		"	62.5		104	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	84-114			

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Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C0603 - EPA 5030B (Water)

Matrix Spike (B7C0603-MS2)		Source: Y703002-03			Prepared: 03/06/2017 Analyzed: 03/06/2017					
Benzene	52.4	1.00	ug/L	50.0	ND	105	74-130			
Toluene	53.8	1.00	"	50.0	ND	108	73-131			
Ethylbenzene	54.3	1.00	"	50.0	ND	109	76-132			
m,p-Xylene	107	2.00	"	100	ND	107	69-139			
o-Xylene	51.2	1.00	"	50.0	ND	102	74-131			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	84-121			
Surrogate: Toluene-d8	66		"	62.5		105	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.8	84-114			

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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C0603 - EPA 5030B (Water)

Matrix Spike Dup (B7C0603-MSD1)		Source: Y703002-03			Prepared: 03/06/2017 Analyzed: 03/06/2017					
Benzene	50.7	1.00	ug/L	50.0	ND	101	74-130	2.86	20	
Toluene	50.7	1.00	"	50.0	ND	101	73-131	6.66	20	
Ethylbenzene	52.2	1.00	"	50.0	ND	104	76-132	6.95	20	
m,p-Xylene	104	2.00	"	100	ND	104	69-139	3.58	20	
o-Xylene	50.0	1.00	"	50.0	ND	100	74-131	3.44	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.8	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	84-114			

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LT Environmental, Inc.
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Arvada CO 80003

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C0603 - EPA 5030B (Water)

Matrix Spike Dup (B7C0603-MSD2)		Source: Y703002-03			Prepared: 03/06/2017 Analyzed: 03/06/2017					
Benzene	48.7	1.00	ug/L	50.0	ND	97.4	74-130	7.20	20	
Toluene	47.9	1.00	"	50.0	ND	95.8	73-131	11.5	20	
Ethylbenzene	50.1	1.00	"	50.0	ND	100	76-132	7.93	20	
m,p-Xylene	100	2.00	"	100	ND	100	69-139	6.43	20	
o-Xylene	48.7	1.00	"	50.0	ND	97.4	74-131	4.95	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.3	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	84-114			

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Arvada CO 80003

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C0605 - EPA 5030 (soil)										
Blank (B7C0605-BLK1)					Prepared: 03/06/2017 Analyzed: 03/06/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.5	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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C0605 - EPA 5030 (soil)										
Blank (B7C0605-BLK2)					Prepared: 03/06/2017 Analyzed: 03/06/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C0605 - EPA 5030 (soil)

LCS (B7C0605-BS1)

Prepared: 03/06/2017 Analyzed: 03/06/2017

Benzene	0.113	0.002	mg/kg	0.100		113	77.1-124			
Toluene	0.116	0.002	"	0.100		116	74.5-128			
Ethylbenzene	0.109	0.002	"	0.100		109	66.4-127			
m,p-Xylene	0.227	0.004	"	0.200		114	76.6-124			
o-Xylene	0.111	0.002	"	0.100		111	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.6	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.8	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C0605 - EPA 5030 (soil)										
LCS (B7C0605-BS2)					Prepared: 03/06/2017 Analyzed: 03/06/2017					
Benzene	0.099	0.002	mg/kg	0.100		99.5	77.1-124			
Toluene	0.102	0.002	"	0.100		102	74.5-128			
Ethylbenzene	0.097	0.002	"	0.100		96.5	66.4-127			
m,p-Xylene	0.198	0.004	"	0.200		98.8	76.6-124			
o-Xylene	0.096	0.002	"	0.100		96.1	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C0605 - EPA 5030 (soil)

Matrix Spike (B7C0605-MS1)		Source: Y703032-01			Prepared: 03/06/2017 Analyzed: 03/06/2017					
Benzene	0.091	0.002	mg/kg	0.100	ND	90.8	71.8-126			
Toluene	0.093	0.002	"	0.100	0.003	90.7	65.1-130			
Ethylbenzene	0.087	0.002	"	0.100	0.002	85.7	62.2-130			
m,p-Xylene	0.177	0.004	"	0.200	0.002	87.2	46.5-137			
o-Xylene	0.086	0.002	"	0.100	0.0004	86.0	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.0	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C0605 - EPA 5030 (soil)

Matrix Spike (B7C0605-MS2)		Source: Y703032-03			Prepared: 03/06/2017 Analyzed: 03/06/2017					
Benzene	0.108	0.002	mg/kg	0.100	ND	108	71.8-126			
Toluene	0.110	0.002	"	0.100	0.001	108	65.1-130			
Ethylbenzene	0.100	0.002	"	0.100	ND	100	62.2-130			
m,p-Xylene	0.206	0.004	"	0.200	ND	103	46.5-137			
o-Xylene	0.100	0.002	"	0.100	ND	100	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C0605 - EPA 5030 (soil)										
Matrix Spike Dup (B7C0605-MSD1)		Source: Y703032-01			Prepared: 03/06/2017 Analyzed: 03/06/2017					
Benzene	0.107	0.002	mg/kg	0.100	ND	107	71.8-126	16.0	11.3	QM-02
Toluene	0.108	0.002	"	0.100	0.003	106	65.1-130	14.9	15.4	
Ethylbenzene	0.100	0.002	"	0.100	0.002	98.9	62.2-130	14.0	19.6	
m,p-Xylene	0.204	0.004	"	0.200	0.002	101	46.5-137	14.6	19.2	
o-Xylene	0.099	0.002	"	0.100	0.0004	98.7	54.2-134	13.7	17.9	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C0605 - EPA 5030 (soil)										
Matrix Spike Dup (B7C0605-MSD2)		Source: Y703032-03			Prepared: 03/06/2017 Analyzed: 03/06/2017					
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126	6.56	11.3	
Toluene	0.101	0.002	"	0.100	0.001	100	65.1-130	7.70	15.4	
Ethylbenzene	0.094	0.002	"	0.100	ND	93.9	62.2-130	6.67	19.6	
m,p-Xylene	0.192	0.004	"	0.200	ND	95.8	46.5-137	7.06	19.2	
o-Xylene	0.094	0.002	"	0.100	ND	94.1	54.2-134	6.22	17.9	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C0606 - EPA 3580

Blank (B7C0606-BLK1)

Prepared: 03/06/2017 Analyzed: 03/06/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	53		"	50.0		106	59-131			

LCS (B7C0606-BS1)

Prepared: 03/06/2017 Analyzed: 03/06/2017

Diesel (C10-C28)	961	50.0	mg/kg	1000		96.1	64-121			
Residual Range Organics (C28-C40)	1050	200	"	1000		105	58-124			
Surrogate: o-Terphenyl	46		"	50.0		92.9	59-131			

Matrix Spike (B7C0606-MS1)

Source: Y703027-01

Prepared: 03/06/2017 Analyzed: 03/06/2017

Diesel (C10-C28)	1010	50.0	mg/kg	1000	31.5	97.7	53-125			
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	47-133			
Surrogate: o-Terphenyl	45		"	50.0		90.3	59-131			

Matrix Spike Dup (B7C0606-MSD1)

Source: Y703027-01

Prepared: 03/06/2017 Analyzed: 03/06/2017

Diesel (C10-C28)	959	50.0	mg/kg	1000	31.5	92.8	53-125	5.16	20	
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	47-133	0.182	20	
Surrogate: o-Terphenyl	46		"	50.0		92.2	59-131			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C0608 - NO PREP										
Duplicate (B7C0608-DUP1)		Source: Y703077-01			Prepared: 03/06/2017 Analyzed: 03/06/2017					
pH	8.56		pH Units		8.58			0.233	25	
Batch B7C0609 - NO PREP										
Blank (B7C0609-BLK1)		Prepared: 03/06/2017 Analyzed: 03/06/2017								
Specific Conductance (EC)	0.00330		mmhos/cm							
Duplicate (B7C0609-DUP1)		Source: Y703077-01			Prepared: 03/06/2017 Analyzed: 03/06/2017					
Specific Conductance (EC)	0.176		mmhos/cm		0.173			2.01	25	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

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.



March 08, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Nesmith 15-17

Project Number - 014217038

Attached are your analytical results for KMG - Nesmith 15-17 received by Origins Laboratory, Inc. March 07, 2017. This project is associated with Origins project number Y703101-01.

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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@10'	Y703101-01	Soil	March 7, 2017 14:25	03/07/2017 15:55
E01@10'	Y703101-02	Soil	March 7, 2017 14:30	03/07/2017 15:55
S01@10'	Y703101-03	Soil	March 7, 2017 14:35	03/07/2017 15:55

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

www.originslaboratory.com

page 1 of 1

703101

ORIGINS LABORATORY, INC

Client: LT Environmental

Project Manager: B. Sulzberger

Project Name: NESMITH 15-17

Project Number: 014217038 W#89955608

Samples Collected By: D. Newman

Telephone Number:

Email Address:

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	As Summed	Other	
N01@10'	3/7/17	1405	2	X					X	X	X	1
E01@10'	↓	1430	2	X					X	X	X	2
S01@10'	↓	1435	2	X					X	X	X	3
												4
												5
												6
												7
												8
												9
												10

Relinquished By: [Signature] Date: 3/7/17 Time: 1555

Relinquished By: [Signature] Date: 3/7/17 Time: 1555

Temp Received: 10.9°C Date Results Needed

Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ Standard ☐

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y703101

Client: LTE

Client Project ID: KMG - Nesmith 15-17

Checklist Completed by: Don Lu

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

Date/time completed: 3-7-17 1556

Airbill #: ND

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

Cooler Number/Temperature: 1 / 10.9 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Sampled Same Day</u>
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: Don Lu (Project Manager)

3-7-17 1557
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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

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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

N01@10'
3/7/2017 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703101-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	1790	25.0	mg/kg	1	B7C0705	03/07/2017	03/07/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 101 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	1360	50.0	mg/kg	250	B7C0704	03/07/2017	03/08/2017	
Benzene	0.846	0.050	"	25	"	"	03/08/2017	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	11.3	0.498	"	250	"	"	03/08/2017	
Xylenes, total	4.54	0.050	"	25	"	"	03/08/2017	

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " 03/08/2017
Surrogate: Toluene-d8 84.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 134 % 70-130 " " " S-04

pH in Soil by EPA 9045D

pH	9.32		pH Units	1	B7C0706	03/07/2017	03/07/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.180		mmhos/cm	"	B7C0707	03/07/2017	"	
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

E01@10'
3/7/2017 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703101-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	39.5	25.0	mg/kg	1	B7C0705	03/07/2017	03/07/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.6 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	10.4	5.00	mg/kg	25	B7C0704	03/07/2017	03/08/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130			"	"	"	

pH in Soil by EPA 9045D

pH	9.08		pH Units	1	B7C0706	03/07/2017	03/07/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0721		mmhos/cm	"	B7C0707	03/07/2017	"	
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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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

S01@10'

3/7/2017 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703101-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7C0705	03/07/2017	03/07/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	0.418	0.200	mg/kg	1	B7C0704	03/07/2017	03/08/2017	
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
Surrogate: Toluene-d8 101 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.02		pH Units	1	B7C0706	03/07/2017	03/07/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0493		mmhos/cm	"	B7C0707	03/07/2017	"	
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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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C0704 - EPA 5030 (soil)										
Blank (B7C0704-BLK2)					Prepared: 03/07/2017 Analyzed: 03/07/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C0704 - EPA 5030 (soil)

LCS (B7C0704-BS2)

Prepared: 03/07/2017 Analyzed: 03/07/2017

Benzene	0.108	0.002	mg/kg	0.100		108	77.1-124			
Toluene	0.111	0.002	"	0.100		111	74.5-128			
Ethylbenzene	0.108	0.002	"	0.100		108	66.4-127			
m,p-Xylene	0.222	0.004	"	0.200		111	76.6-124			
o-Xylene	0.107	0.002	"	0.100		107	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	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.

Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C0704 - EPA 5030 (soil)

Matrix Spike (B7C0704-MS2)		Source: Y703011-03			Prepared: 03/07/2017 Analyzed: 03/07/2017					
Benzene	0.103	0.002	mg/kg	0.100	ND	103	71.8-126			
Toluene	0.098	0.002	"	0.100	ND	97.9	65.1-130			
Ethylbenzene	0.090	0.002	"	0.100	ND	90.3	62.2-130			
m,p-Xylene	0.184	0.004	"	0.200	ND	92.1	46.5-137			
o-Xylene	0.092	0.002	"	0.100	ND	91.7	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C0704 - EPA 5030 (soil)

Matrix Spike Dup (B7C0704-MSD2)		Source: Y703011-03			Prepared: 03/07/2017 Analyzed: 03/07/2017					
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126	0.968	11.3	
Toluene	0.102	0.002	"	0.100	ND	102	65.1-130	4.03	15.4	
Ethylbenzene	0.099	0.002	"	0.100	ND	99.2	62.2-130	9.37	19.6	
m,p-Xylene	0.202	0.004	"	0.200	ND	101	46.5-137	9.20	19.2	
o-Xylene	0.100	0.002	"	0.100	ND	100	54.2-134	8.80	17.9	
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C0705 - EPA 3580

Blank (B7C0705-BLK1)

Prepared: 03/07/2017 Analyzed: 03/07/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	54		"	50.0		107	59-131			

LCS (B7C0705-BS1)

Prepared: 03/07/2017 Analyzed: 03/07/2017

Diesel (C10-C28)	1060	50.0	mg/kg	1000		106	64-121			
Residual Range Organics (C28-C40)	1060	200	"	1000		106	58-124			
Surrogate: o-Terphenyl	52		"	50.0		103	59-131			

Matrix Spike (B7C0705-MS1)

Source: Y703098-01

Prepared: 03/07/2017 Analyzed: 03/07/2017

Diesel (C10-C28)	1490	50.0	mg/kg	1000	407	109	53-125			
Residual Range Organics (C28-C40)	1160	200	"	1000	70.5	109	47-133			
Surrogate: o-Terphenyl	47		"	50.0		93.9	59-131			

Matrix Spike Dup (B7C0705-MSD1)

Source: Y703098-01

Prepared: 03/07/2017 Analyzed: 03/07/2017

Diesel (C10-C28)	1430	50.0	mg/kg	1000	407	102	53-125	6.44	20	
Residual Range Organics (C28-C40)	1130	200	"	1000	70.5	106	47-133	3.10	20	
Surrogate: o-Terphenyl	49		"	50.0		98.3	59-131			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C0706 - NO PREP										
Duplicate (B7C0706-DUP1)		Source: Y703101-01			Prepared: 03/07/2017 Analyzed: 03/07/2017					
pH	9.25		pH Units		9.32			0.754	25	
Batch B7C0707 - NO PREP										
Blank (B7C0707-BLK1)		Prepared: 03/07/2017 Analyzed: 03/07/2017								
Specific Conductance (EC)	0.00370		mmhos/cm							
Duplicate (B7C0707-DUP1)		Source: Y703101-01			Prepared: 03/07/2017 Analyzed: 03/07/2017					
Specific Conductance (EC)	0.203		mmhos/cm		0.180			12.1	25	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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.



March 10, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Nesmith 15-17

Project Number - 014217038

Attached are your analytical results for KMG - Nesmith 15-17 received by Origins Laboratory, Inc. March 09, 2017. This project is associated with Origins project number Y703141-01.

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

Brian Sulzberger

Project Number: 014217038

Project: KMG - Nesmith 15-17

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N02@10'	Y703141-01	Soil	March 9, 2017 13:55	03/09/2017 16:23

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.

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

[illegible]

Origins Laboratory, Inc.

Jeff Pellipini

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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y7031411

Client: LTE

Client Project ID: KMG - Nesmith 15-17

Checklist Completed by: Dan

Shipped Via: HT

Date/time completed: 3-16-17 1652

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

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2.2 °C 1 / _____ °C 1 / _____ °C (Describe)

Thermometer ID: T643

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"/>	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pu
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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) Dan

3-16-17 1652
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

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

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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

N02@10'

3/9/2017 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703141-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	2610	25.0	mg/kg	1	B7C0903	03/09/2017	03/09/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 102 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	1210	50.0	mg/kg	250	B7C0902	03/09/2017	03/10/2017	
Benzene	0.250	0.050	"	25	"	"	03/10/2017	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	4.66	0.050	"	"	"	"	"	
Xylenes, total	46.7	0.498	"	250	"	"	03/10/2017	

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " 03/10/2017
Surrogate: Toluene-d8 98.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 145 % 70-130 " " 03/10/2017

pH in Soil by EPA 9045D

pH	9.21		pH Units	1	B7C0907	03/09/2017	03/09/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.145		mmhos/cm	"	B7C0908	"	"	
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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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C0902 - EPA 5030 (soil)										
Blank (B7C0902-BLK1)					Prepared: 03/09/2017 Analyzed: 03/09/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C0902 - EPA 5030 (soil)										
Blank (B7C0902-BLK2)					Prepared: 03/09/2017 Analyzed: 03/09/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C0902 - EPA 5030 (soil)										
LCS (B7C0902-BS1)					Prepared: 03/09/2017 Analyzed: 03/09/2017					
Benzene	0.109	0.002	mg/kg	0.100		109	77.1-124			
Toluene	0.107	0.002	"	0.100		107	74.5-128			
Ethylbenzene	0.104	0.002	"	0.100		104	66.4-127			
m,p-Xylene	0.213	0.004	"	0.200		107	76.6-124			
o-Xylene	0.102	0.002	"	0.100		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.9	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C0902 - EPA 5030 (soil)										
LCS (B7C0902-BS2)					Prepared: 03/09/2017 Analyzed: 03/09/2017					
Benzene	0.108	0.002	mg/kg	0.100		108	77.1-124			
Toluene	0.107	0.002	"	0.100		107	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.208	0.004	"	0.200		104	76.6-124			
o-Xylene	0.100	0.002	"	0.100		99.8	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	56		ug/kg	62.5		89.1	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C0902 - EPA 5030 (soil)

Matrix Spike (B7C0902-MS1)		Source: Y703092-01			Prepared: 03/09/2017 Analyzed: 03/09/2017					
Benzene	0.111	0.002	mg/kg	0.100	0.015	95.8	71.8-126			
Toluene	0.096	0.002	"	0.100	0.001	95.0	65.1-130			
Ethylbenzene	0.108	0.002	"	0.100	0.020	88.2	62.2-130			
m,p-Xylene	0.232	0.004	"	0.200	0.048	91.6	46.5-137			
o-Xylene	0.101	0.002	"	0.100	0.002	98.4	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C0902 - EPA 5030 (soil)										
Matrix Spike (B7C0902-MS2)		Source: Y703092-02			Prepared: 03/09/2017 Analyzed: 03/09/2017					
Benzene	0.155	0.002	mg/kg	0.100	0.055	99.9	71.8-126			
Toluene	0.086	0.002	"	0.100	0.002	84.1	65.1-130			
Ethylbenzene	0.473	0.002	"	0.100	0.458	14.5	62.2-130			QM-07
m,p-Xylene	0.875	0.004	"	0.200	0.749	62.9	46.5-137			
o-Xylene	0.110	0.002	"	0.100	0.009	100	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		93.1	70-130			
Surrogate: Toluene-d8	54		"	62.5		86.7	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C0902 - EPA 5030 (soil)

Matrix Spike Dup (B7C0902-MSD1)		Source: Y703092-01			Prepared: 03/09/2017 Analyzed: 03/09/2017					
Benzene	0.125	0.002	mg/kg	0.100	0.015	109	71.8-126	11.4	11.3	QM-07
Toluene	0.106	0.002	"	0.100	0.001	105	65.1-130	9.46	15.4	
Ethylbenzene	0.119	0.002	"	0.100	0.020	99.6	62.2-130	10.1	19.6	
m,p-Xylene	0.260	0.004	"	0.200	0.048	106	46.5-137	11.3	19.2	
o-Xylene	0.107	0.002	"	0.100	0.002	104	54.2-134	5.79	17.9	
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.2	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C0902 - EPA 5030 (soil)										
Matrix Spike Dup (B7C0902-MSD2)	Source: Y703092-02				Prepared: 03/09/2017 Analyzed: 03/09/2017					
Benzene	0.162	0.002	mg/kg	0.100	0.055	107	71.8-126	4.49	11.3	
Toluene	0.087	0.002	"	0.100	0.002	85.5	65.1-130	1.64	15.4	
Ethylbenzene	0.485	0.002	"	0.100	0.458	26.6	62.2-130	2.53	19.6	QM-07
m,p-Xylene	0.891	0.004	"	0.200	0.749	71.0	46.5-137	1.85	19.2	
o-Xylene	0.108	0.002	"	0.100	0.009	98.8	54.2-134	1.29	17.9	
Surrogate: 1,2-Dichloroethane-d4	77		ug/kg	62.5		122	70-130			
Surrogate: Toluene-d8	55		"	62.5		87.4	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C0903 - EPA 3550B

Blank (B7C0903-BLK1)

Prepared: 03/09/2017 Analyzed: 03/09/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	44		"	50.0		88.9	59-131			

Blank (B7C0903-BLK2)

Prepared: 03/09/2017 Analyzed: 03/09/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		91.9	59-131			

LCS (B7C0903-BS1)

Prepared: 03/09/2017 Analyzed: 03/09/2017

Diesel (C10-C28)	903	50.0	mg/kg	1000		90.3	64-121			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	58-124			
Surrogate: o-Terphenyl	43		"	50.0		86.7	59-131			

LCS (B7C0903-BS2)

Prepared: 03/09/2017 Analyzed: 03/09/2017

Diesel (C10-C28)	893	50.0	mg/kg	1000		89.3	64-121			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	58-124			
Surrogate: o-Terphenyl	46		"	50.0		92.6	59-131			

Matrix Spike (B7C0903-MS1)

Source: Y703096-01

Prepared: 03/09/2017 Analyzed: 03/09/2017

Diesel (C10-C28)	6330	50.0	mg/kg	1000	10400	NR	53-125			QM-07
Residual Range Organics (C28-C40)	2320	200	"	1000	2540	NR	47-133			QM-07

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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
Batch B7C0903 - EPA 3550B										
Matrix Spike (B7C0903-MS1)		Source: Y703096-01			Prepared: 03/09/2017 Analyzed: 03/09/2017					
Surrogate: o-Terphenyl	42		mg/kg	50.0		83.8	59-131			
Matrix Spike (B7C0903-MS2)		Source: Y703097-01			Prepared: 03/09/2017 Analyzed: 03/09/2017					
Diesel (C10-C28)	912	50.0	mg/kg	1000	22.6	88.9	53-125			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	47-133			
Surrogate: o-Terphenyl	46		"	50.0		92.0	59-131			
Matrix Spike Dup (B7C0903-MSD1)		Source: Y703096-01			Prepared: 03/09/2017 Analyzed: 03/09/2017					
Diesel (C10-C28)	6960	50.0	mg/kg	1000	10400	NR	53-125	NR	20	QM-07
Residual Range Organics (C28-C40)	2420	200	"	1000	2540	NR	47-133	NR	20	QM-07
Surrogate: o-Terphenyl	48		"	50.0		96.1	59-131			
Matrix Spike Dup (B7C0903-MSD2)		Source: Y703097-01			Prepared: 03/09/2017 Analyzed: 03/09/2017					
Diesel (C10-C28)	903	50.0	mg/kg	1000	22.6	88.0	53-125	1.01	20	
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	47-133	1.40	20	
Surrogate: o-Terphenyl	46		"	50.0		92.6	59-131			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C0907 - NO PREP										
Duplicate (B7C0907-DUP1)		Source: Y703140-01			Prepared: 03/09/2017 Analyzed: 03/09/2017					
pH	9.03		pH Units		8.96			0.778	25	
Batch B7C0908 - NO PREP										
Blank (B7C0908-BLK1)		Prepared: 03/09/2017 Analyzed: 03/09/2017								
Specific Conductance (EC)	0.00310		mmhos/cm							
Duplicate (B7C0908-DUP1)		Source: Y703140-01			Prepared: 03/09/2017 Analyzed: 03/09/2017					
Specific Conductance (EC)	0.699		mmhos/cm		0.675			3.49	25	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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 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.



March 16, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Nesmith 15-17

Project Number - 014217038

Attached are your analytical results for KMG - Nesmith 15-17 received by Origins Laboratory, Inc. March 15, 2017. This project is associated with Origins project number Y703217-01.

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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N03@10'	Y703217-01	Soil	March 15, 2017 16:40	03/15/2017 17:50
E02@10'	Y703217-02	Soil	March 15, 2017 16:35	03/15/2017 17:50
W02@10'	Y703217-03	Soil	March 15, 2017 16:30	03/15/2017 17:50

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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 703217

Client: LTE

Client Project ID: KMG - Nesmith 15-17

Checklist Completed by: DW

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

Date/time completed: 3-15-12 1506

Airbill #: N/A

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

Cooler Number/Temperature: / 16.1 °C / °C / °C (Describe)

Thermometer ID: T603

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"/>		<i>Shipped with Dry</i>
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"/>			<i>pH</i>
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) DW

Date/Time Reviewed 3-15-12 1506

Origins Laboratory, Inc.

Jefe Pellegrini

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

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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

N03@10'
3/15/2017 4:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703217-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	63.5	25.0	mg/kg	1	B7C1503	03/15/2017	03/15/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.4 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	39.0	5.00	mg/kg	25	B7C1502	03/15/2017	03/15/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	

pH in Soil by EPA 9045D

pH	9.08		pH Units	1	B7C1507	03/15/2017	03/15/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.130		mmhos/cm	"	B7C1508	03/15/2017	03/15/2017	
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

E02@10'
3/15/2017 4:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703217-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	1060	25.0	mg/kg	1	B7C1503	03/15/2017	03/15/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.3 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	3990	500	mg/kg	2500	B7C1502	03/15/2017	03/16/2017	
Benzene	2.78	0.498	"	250	"	"	03/16/2017	
Toluene	0.565	0.498	"	"	"	"	"	
Ethylbenzene	69.4	0.498	"	"	"	"	"	
Xylenes, total	17.6	0.498	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.8 %	70-130			"	"	03/16/2017	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	03/16/2017	

pH in Soil by EPA 9045D

pH	8.90		pH Units	1	B7C1507	03/15/2017	03/15/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0637		mmhos/cm	"	B7C1508	03/15/2017	03/15/2017	
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

W02@10'
3/15/2017 4:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703217-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	26.9	25.0	mg/kg	1	B7C1503	03/15/2017	03/15/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

Gasoline Range Hydrocarbons	19.3	5.00	mg/kg	25	B7C1502	03/15/2017	03/15/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	0.098	0.050	"	"	"	"	"	
Xylenes, total	0.056	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

pH in Soil by EPA 9045D

pH	9.56		pH Units	1	B7C1507	03/15/2017	03/15/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.217		mmhos/cm	"	B7C1508	03/15/2017	03/15/2017	
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C1502 - EPA 5030 (soil)										
Blank (B7C1502-BLK1)					Prepared: 03/15/2017 Analyzed: 03/15/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	57		ug/kg	62.5		91.8	70-130			
Surrogate: Toluene-d8	53		"	62.5		85.4	70-130			
Surrogate: 4-Bromofluorobenzene	55		"	62.5		88.0	70-130			

Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C1502 - EPA 5030 (soil)										
LCS (B7C1502-BS1)					Prepared: 03/15/2017 Analyzed: 03/15/2017					
Benzene	0.107	0.002	mg/kg	0.100		107	77.1-124			
Toluene	0.107	0.002	"	0.100		107	74.5-128			
Ethylbenzene	0.106	0.002	"	0.100		106	66.4-127			
m,p-Xylene	0.211	0.004	"	0.200		105	76.6-124			
o-Xylene	0.103	0.002	"	0.100		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	70-130			

Origins Laboratory, Inc.



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LT Environmental, Inc.
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Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C1502 - EPA 5030 (soil)

Matrix Spike (B7C1502-MS1)		Source: Y703202-01			Prepared: 03/15/2017 Analyzed: 03/15/2017					
Benzene	2.74	0.050	mg/kg	2.50	ND	110	71.8-126			
Toluene	2.80	0.050	"	2.50	ND	112	65.1-130			
Ethylbenzene	2.73	0.050	"	2.50	ND	109	62.2-130			
m,p-Xylene	5.59	0.100	"	5.00	ND	112	46.5-137			
o-Xylene	2.71	0.050	"	2.50	ND	108	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	70-130			

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C1502 - EPA 5030 (soil)

Matrix Spike Dup (B7C1502-MSD1)		Source: Y703202-01			Prepared: 03/15/2017 Analyzed: 03/15/2017					
Benzene	2.76	0.050	mg/kg	2.50	ND	110	71.8-126	0.673	11.3	
Toluene	2.79	0.050	"	2.50	ND	112	65.1-130	0.125	15.4	
Ethylbenzene	2.81	0.050	"	2.50	ND	112	62.2-130	2.60	19.6	
m,p-Xylene	5.68	0.100	"	5.00	ND	114	46.5-137	1.44	19.2	
o-Xylene	2.76	0.050	"	2.50	ND	110	54.2-134	1.90	17.9	
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.8	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C1503 - EPA 3580

Blank (B7C1503-BLK1)

Prepared: 03/15/2017 Analyzed: 03/15/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	47		"	50.0		94.4	59-131			

LCS (B7C1503-BS1)

Prepared: 03/15/2017 Analyzed: 03/15/2017

Diesel (C10-C28)	836	50.0	mg/kg	1000		83.6	64-121			
Residual Range Organics (C28-C40)	850	200	"	1000		85.0	58-124			
Surrogate: o-Terphenyl	40		"	50.0		80.4	59-131			

Matrix Spike (B7C1503-MS1)

Source: Y703202-01

Prepared: 03/15/2017 Analyzed: 03/15/2017

Diesel (C10-C28)	1030	50.0	mg/kg	1000	377	65.7	53-125			
Residual Range Organics (C28-C40)	917	200	"	1000	ND	91.7	47-133			
Surrogate: o-Terphenyl	47		"	50.0		94.2	59-131			

Matrix Spike Dup (B7C1503-MSD1)

Source: Y703202-01

Prepared: 03/15/2017 Analyzed: 03/15/2017

Diesel (C10-C28)	999	50.0	mg/kg	1000	377	62.2	53-125	5.47	20	
Residual Range Organics (C28-C40)	803	200	"	1000	ND	80.3	47-133	13.3	20	
Surrogate: o-Terphenyl	42		"	50.0		83.7	59-131			

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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C1507 - NO PREP										
Duplicate (B7C1507-DUP1)		Source: Y703208-02			Prepared: 03/15/2017 Analyzed: 03/15/2017					
pH	8.52		pH Units		8.38			1.66	25	
Batch B7C1508 - NO PREP										
Blank (B7C1508-BLK1)		Prepared: 03/15/2017 Analyzed: 03/15/2017								
Specific Conductance (EC)	0.00340		mmhos/cm							
Duplicate (B7C1508-DUP1)		Source: Y703208-02			Prepared: 03/15/2017 Analyzed: 03/15/2017					
Specific Conductance (EC)	0.118		mmhos/cm		0.125			5.68	25	

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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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March 17, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Nesmith 15-17

Project Number - 014217038

Attached are your analytical results for KMG - Nesmith 15-17 received by Origins Laboratory, Inc. March 16, 2017. This project is associated with Origins project number Y703239-01.

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

Brian Sulzberger

Project Number: 014217038

Project: KMG - Nesmith 15-17

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E03@10'	Y703239-01	Soil	March 16, 2017 13:20	03/16/2017 17:20

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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page 1 of 1

1703239

ORIGINS
LABORATORY, INC

Client: LTE
Address: 4600 West 60th Ave
Telephone Number: (303) 433-9788
Email Address: APC Team

Project Manager: Brian Sulzberger
Project Name: Nesmith 15-17
Project Number: 014217038
Samples Collected By: Kris Shepherd
20 # 89235608 AHA Paul Schmitz

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	De Summa #	Other	TOH		U	SAR
E03010	3/16/17	1320	2	X					X			X	X	1	HOLD SAR
														2	
														3	
														4	
														5	
														6	
														7	
														8	
														9	
														10	

Relinquished By: [Signature] Date: 3/16/17 Time: 1637
Relinquished By: [Signature] Date: 3/16/17 Time: 1720

Received By: [Signature] Date: 3/16/17 Time: 1637
Received By: [Signature] Date: 3/16/17 Time: 1720

Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐ ☒ ☐

Date Results Needed: 3/17/2016

982

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

Origins Laboratory, Inc.

Jefe Pellegrini

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

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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y203239

Client: LTE

Client Project ID: KMG - Nesmith 15-17

Checklist Completed by: Don Lu

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

Date/time completed: 3-16-17

Airbill #: NA

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

Cooler Number/Temperature: 1 / 32 °C 1 / _____ °C 1 / _____ °C (Describe)

Thermometer ID: 1009

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"/>		<u>Sampled Soil Dry</u>
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>pu</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 (> 1/4 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, 2NaAs+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) Don Lu

Date/Time Reviewed 3-16-17

Origins Laboratory, Inc.

Jen Pellegrini

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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

E03@10'
3/16/2017 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703239-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	62.2	25.0	mg/kg	1	B7C1602	03/16/2017	03/16/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.8 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	10.5	0.200	mg/kg	1	B7C1601	03/16/2017	03/16/2017	
Benzene	0.003	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	0.016	0.002	"	"	"	"	"	
Xylenes, total	0.241	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	90.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	138 %	70-130			"	"	"	S-04

pH in Soil by EPA 9045D

pH	8.96		pH Units	1	B7C1606	03/16/2017	03/16/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0640		mmhos/cm	"	B7C1607	03/16/2017	"	
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Arvada CO 80003

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Project: KMG - Nesmith 15-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C1601 - EPA 5030 (soil)										
Blank (B7C1601-BLK1)					Prepared: 03/16/2017 Analyzed: 03/16/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.9	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
Batch B7C1601 - EPA 5030 (soil)										
Blank (B7C1601-BLK2)					Prepared: 03/16/2017 Analyzed: 03/16/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	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
Batch B7C1601 - EPA 5030 (soil)										
LCS (B7C1601-BS1)					Prepared: 03/16/2017 Analyzed: 03/16/2017					
Benzene	0.109	0.002	mg/kg	0.100		109	77.1-124			
Toluene	0.105	0.002	"	0.100		105	74.5-128			
Ethylbenzene	0.103	0.002	"	0.100		103	66.4-127			
m,p-Xylene	0.207	0.004	"	0.200		104	76.6-124			
o-Xylene	0.103	0.002	"	0.100		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.4	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.0	70-130			

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Project: KMG - Nesmith 15-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7C1601 - EPA 5030 (soil)										
LCS (B7C1601-BS2)					Prepared: 03/16/2017 Analyzed: 03/16/2017					
Benzene	0.111	0.002	mg/kg	0.100		111	77.1-124			
Toluene	0.106	0.002	"	0.100		106	74.5-128			
Ethylbenzene	0.103	0.002	"	0.100		103	66.4-127			
m,p-Xylene	0.209	0.004	"	0.200		105	76.6-124			
o-Xylene	0.104	0.002	"	0.100		104	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	74		ug/kg	62.5		119	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	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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Batch B7C1601 - EPA 5030 (soil)

Matrix Spike (B7C1601-MS1)		Source: Y703206-02			Prepared: 03/16/2017 Analyzed: 03/16/2017					
Benzene	0.108	0.002	mg/kg	0.100	ND	108	71.8-126			
Toluene	0.106	0.002	"	0.100	ND	106	65.1-130			
Ethylbenzene	0.104	0.002	"	0.100	ND	104	62.2-130			
m,p-Xylene	0.208	0.004	"	0.200	ND	104	46.5-137			
o-Xylene	0.103	0.002	"	0.100	ND	103	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.6	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	70-130			

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Arvada CO 80003

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C1601 - EPA 5030 (soil)

Matrix Spike Dup (B7C1601-MSD1)		Source: Y703206-02			Prepared: 03/16/2017 Analyzed: 03/16/2017					
Benzene	0.108	0.002	mg/kg	0.100	ND	108	71.8-126	0.408	11.3	
Toluene	0.102	0.002	"	0.100	ND	102	65.1-130	3.90	15.4	
Ethylbenzene	0.102	0.002	"	0.100	ND	102	62.2-130	2.66	19.6	
m,p-Xylene	0.202	0.004	"	0.200	ND	101	46.5-137	2.91	19.2	
o-Xylene	0.100	0.002	"	0.100	ND	100	54.2-134	2.48	17.9	
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C1602 - EPA 3580

Blank (B7C1602-BLK1)

Prepared: 03/16/2017 Analyzed: 03/16/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	43		"	50.0		86.3	59-131			

LCS (B7C1602-BS1)

Prepared: 03/16/2017 Analyzed: 03/16/2017

Diesel (C10-C28)	862	50.0	mg/kg	1000		86.2	64-121			
Residual Range Organics (C28-C40)	894	200	"	1000		89.4	58-124			
Surrogate: o-Terphenyl	42		"	50.0		84.7	59-131			

Matrix Spike (B7C1602-MS1)

Source: Y703224-01

Prepared: 03/16/2017 Analyzed: 03/16/2017

Diesel (C10-C28)	2060	50.0	mg/kg	1000	904	115	53-125			
Residual Range Organics (C28-C40)	816	200	"	1000	ND	81.6	47-133			
Surrogate: o-Terphenyl	51		"	50.0		101	59-131			

Matrix Spike Dup (B7C1602-MSD1)

Source: Y703224-01

Prepared: 03/16/2017 Analyzed: 03/16/2017

Diesel (C10-C28)	2060	50.0	mg/kg	1000	904	116	53-125	0.114	20	
Residual Range Organics (C28-C40)	826	200	"	1000	ND	82.6	47-133	1.19	20	
Surrogate: o-Terphenyl	52		"	50.0		103	59-131			

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Brian Sulzberger
Project Number: 014217038
Project: KMG - Nesmith 15-17

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 B7C1606 - NO PREP										
Duplicate (B7C1606-DUP1)		Source: Y703238-01			Prepared: 03/16/2017 Analyzed: 03/16/2017					
pH	8.67		pH Units		8.68			0.115	25	
Batch B7C1607 - NO PREP										
Blank (B7C1607-BLK1)		Prepared: 03/16/2017 Analyzed: 03/16/2017								
Specific Conductance (EC)	0.00350		mmhos/cm							
Duplicate (B7C1607-DUP1)		Source: Y703238-01			Prepared: 03/16/2017 Analyzed: 03/16/2017					
Specific Conductance (EC)	0.0309		mmhos/cm		0.0254			19.5	25	

Origins Laboratory, Inc.



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Project: KMG - Nesmith 15-17

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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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