

December 31, 2015

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - UPRC-63N66W/31SESE

Project Number - 014215261

Attached are your analytical results for KMG - UPRC-63N66W/31SESE received by Origins Laboratory, Inc. December 31, 2015. This project is associated with Origins project number X512405-01.

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

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

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

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

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

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



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

John Cocroft
Project Number: 014215261
Project: KMG - UPRC-63N66W/31SESE

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW01	X512405-01	Water	December 31, 2015 10:30	12/31/2015 12:35

Origins Laboratory, Inc.



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

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

John Cocroft
 Project Number: 014215261
 Project: KMG - UPRC-63N66W/31SESE

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XS12405 Client: LTE
 Client Project ID: KMG-UPRC-63N66W/31SE
 Checklist Completed by: Jen Pellegrini Shipped Via: 411D
 Date/time completed: 12/31/15 (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 14.2 °C 1 °C 1 °C 1 °C (Describe)
 Thermometer ID: TC03

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

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

Reviewed by: [Signature] (Project Manager)

Date/Time Reviewed: 12/31/15

Origins Laboratory, Inc.

Jen Pellegrini

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

John Cocroft
 Project Number: 014215261
 Project: KMG - UPRC-63N66W/31SESE

SW01
12/31/2015 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X512405-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	B5L3101	12/31/2015	12/31/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014215261
 Project: KMG - UPRC-63N66W/31SESE

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 B5L3101 - EPA 5030B (Water)

Blank (B5L3101-BLK1)

Prepared: 12/31/2015 Analyzed: 12/31/2015

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.7	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	84-114			

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014215261
 Project: KMG - UPRC-63N66W/31SESE

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 B5L3101 - EPA 5030B (Water)

LCS (B5L3101-BS1)

Prepared: 12/31/2015 Analyzed: 12/31/2015

Benzene	43.6	1.0	ug/L	50.0		87.1	73.3-129			
Toluene	44.8	1.0	"	50.0		89.6	76.2-123			
Ethylbenzene	43.0	1.0	"	50.0		86.0	73.6-130			
m,p-Xylene	85.2	2.0	"	100		85.2	76.1-126			
o-Xylene	44.3	1.0	"	50.0		88.6	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.5	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

Origins Laboratory, Inc.



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 Arvada CO 80003

John Cocroft
 Project Number: 014215261
 Project: KMG - UPRC-63N66W/31SESE

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 B5L3101 - EPA 5030B (Water)

Matrix Spike (B5L3101-MS1)	Source: X512384-02			Prepared: 12/31/2015 Analyzed: 12/31/2015						
Benzene	51.8	1.0	ug/L	50.0	ND	104	74-130			
Toluene	52.8	1.0	"	50.0	ND	106	73-131			
Ethylbenzene	52.0	1.0	"	50.0	ND	104	76-132			
m,p-Xylene	103	2.0	"	100	ND	103	69-139			
o-Xylene	51.4	1.0	"	50.0	ND	103	74-131			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		103	84-121			
Surrogate: Toluene-d8	65		"	62.5		104	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

Origins Laboratory, Inc.



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 Arvada CO 80003

John Cocroft
 Project Number: 014215261
 Project: KMG - UPRC-63N66W/31SESE

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 B5L3101 - EPA 5030B (Water)

Matrix Spike Dup (B5L3101-MSD1)	Source: X512384-02			Prepared: 12/31/2015 Analyzed: 12/31/2015						
Benzene	45.2	1.0	ug/L	50.0	ND	90.3	74-130	13.8	20	
Toluene	44.8	1.0	"	50.0	ND	89.7	73-131	16.3	20	
Ethylbenzene	45.0	1.0	"	50.0	ND	89.9	76-132	14.4	20	
m,p-Xylene	88.2	2.0	"	100	ND	88.2	69-139	15.5	20	
o-Xylene	45.0	1.0	"	50.0	ND	89.9	74-131	13.4	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.7	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	84-114			

Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

John Cocroft
Project Number: 014215261
Project: KMG - UPRC-63N66W/31SESE

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

January 07, 2016

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - UPRC-63N66W/31SESE

Project Number - 014215261

Attached are your analytical results for KMG - UPRC-63N66W/31SESE received by Origins Laboratory, Inc. December 31, 2015. This project is associated with Origins project number X512404-01.

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.

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

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



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

John Cocroft
Project Number: 014215261
Project: KMG - UPRC-63N66W/31SESE

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	X512404-01	Soil	December 31, 2015 10:55	12/31/2015 12:35
SS02	X512404-02	Soil	December 31, 2015 11:00	12/31/2015 12:35
SS03	X512404-03	Soil	December 31, 2015 11:05	12/31/2015 12:35
BG01	X512404-04	Soil	December 31, 2015 11:05	12/31/2015 12:35

pH taken off hold for BG01 per phone call with Andy on 01/07/16. ASAP TAT.

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014215261
 Project: KMG - UPRC-63N66W/31SESE

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XS12404 Client: LTE
 Client Project ID: KMG-UPRC-63N66W/31SE
 Checklist Completed by: Jen Pellegrini Shipped Via: H/D
 Date/time completed: 12/31/15 (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 / 4.2 °C / _____ °C / _____ °C / _____ °C
 Thermometer ID: TCUB

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

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

Jen Pellegrini Reviewed by (Project Manager) 12/31/15 Date/Time Reviewed

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014215261
 Project: KMG - UPRC-63N66W/31SESE

SS01
12/31/2015 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X512404-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B5L3103	12/31/2015	12/31/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

Surrogate: o-Terphenyl 92.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B5L3102	12/31/2015	12/31/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "
Surrogate: Toluene-d8 95.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.91		pH Units	1	B5L3105	12/31/2015	12/31/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.231		mmhos/cm	"	B5L3106	"	12/31/2015	
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Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014215261
 Project: KMG - UPRC-63N66W/31SESE

SS02
12/31/2015 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X512404-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B5L3103	12/31/2015	12/31/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

Surrogate: o-Terphenyl 85.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B5L3102	12/31/2015	12/31/2015	
Benzene	ND	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	
Xylenes, total	ND	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
Surrogate: Toluene-d8 95.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.29		pH Units	1	B5L3105	12/31/2015	12/31/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.392		mmhos/cm	"	B5L3106	"	12/31/2015	
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Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014215261
 Project: KMG - UPRC-63N66W/31SESE

SS03
12/31/2015 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X512404-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B5L3103	12/31/2015	12/31/2015	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

Surrogate: o-Terphenyl 75.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B5L3102	12/31/2015	12/31/2015	
Benzene	ND	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	
Xylenes, total	ND	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
Surrogate: Toluene-d8 97.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.37		pH Units	1	B5L3105	12/31/2015	12/31/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.102		mmhos/cm	"	B5L3106	"	12/31/2015	
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

John Cocroft
Project Number: 014215261
Project: KMG - UPRC-63N66W/31SESE

BG01

12/31/2015 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X512404-04 (Soil)

pH in Soil by EPA 9045D

pH	8.76		pH Units	1	B6A0701	01/07/2016	01/07/2016	
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 4600 West 60th Avenue
 Arvada CO 80003

John Cocroft
 Project Number: 014215261
 Project: KMG - UPRC-63N66W/31SESE

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 B5L3102 - EPA 5030 (soil)

Blank (B5L3102-BLK1)

Prepared: 12/31/2015 Analyzed: 12/31/2015

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	68.5		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	60.1		"	62.5		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	63.0		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

John Cocroft
 Project Number: 014215261
 Project: KMG - UPRC-63N66W/31SESE

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 B5L3102 - EPA 5030 (soil)

LCS (B5L3102-BS1)

Prepared: 12/31/2015 Analyzed: 12/31/2015

Benzene	0.095	0.002	mg/kg	0.100		95.2	77.1-124			
Toluene	0.087	0.002	"	0.100		87.3	74.5-128			
Ethylbenzene	0.090	0.002	"	0.100		90.4	66.4-127			
m,p-Xylene	0.183	0.004	"	0.200		91.6	76.6-124			
o-Xylene	0.092	0.002	"	0.100		92.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	65.3		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	59.8		"	62.5		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	64.2		"	62.5		103	70-130			

Origins Laboratory, Inc.



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John Cocroft
 Project Number: 014215261
 Project: KMG - UPRC-63N66W/31SESE

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 B5L3102 - EPA 5030 (soil)

Matrix Spike (B5L3102-MS1)	Source: X512400-01			Prepared: 12/31/2015 Analyzed: 12/31/2015						
Benzene	0.103	0.002	mg/kg	0.100	ND	103	71.8-126			
Toluene	0.097	0.002	"	0.100	ND	96.8	65.1-130			
Ethylbenzene	0.101	0.002	"	0.100	ND	101	62.2-130			
m,p-Xylene	0.203	0.004	"	0.200	ND	101	46.5-137			
o-Xylene	0.101	0.002	"	0.100	ND	101	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64.4		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	60.3		"	62.5		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	64.1		"	62.5		103	70-130			

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014215261
 Project: KMG - UPRC-63N66W/31SESE

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 B5L3102 - EPA 5030 (soil)

Matrix Spike Dup (B5L3102-MSD1)	Source: X512400-01			Prepared: 12/31/2015 Analyzed: 12/31/2015						
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126	2.02	11.3	
Toluene	0.094	0.002	"	0.100	ND	93.9	65.1-130	3.00	15.4	
Ethylbenzene	0.095	0.002	"	0.100	ND	94.9	62.2-130	6.11	19.6	
m,p-Xylene	0.192	0.004	"	0.200	ND	95.9	46.5-137	5.68	19.2	
o-Xylene	0.096	0.002	"	0.100	ND	96.4	54.2-134	5.11	17.9	
Surrogate: 1,2-Dichloroethane-d4	66.8		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	59.8		"	62.5		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	63.4		"	62.5		101	70-130			

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

John Cocroft
 Project Number: 014215261
 Project: KMG - UPRC-63N66W/31SESE

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 B5L3103 - EPA 3580

Blank (B5L3103-BLK1)

Prepared: 12/31/2015 Analyzed: 12/31/2015

Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	41		"	50.0		82.0	59-131			

LCS (B5L3103-BS1)

Prepared: 12/31/2015 Analyzed: 12/31/2015

Diesel (C10-C28)	760	50	mg/kg	1000		76.1	64-121			
Residual Range Organics (C28-C36)	790	200	"	1000		79.0	58-124			
Surrogate: o-Terphenyl	45		"	50.0		90.4	59-131			

Matrix Spike (B5L3103-MS1)

Source: X512400-01

Prepared: 12/31/2015 Analyzed: 12/31/2015

Diesel (C10-C28)	830	50	mg/kg	1000	ND	83.0	53-125			
Residual Range Organics (C28-C36)	870	200	"	1000	13	85.9	47-133			
Surrogate: o-Terphenyl	45		"	50.0		89.3	59-131			

Matrix Spike Dup (B5L3103-MSD1)

Source: X512400-01

Prepared: 12/31/2015 Analyzed: 12/31/2015

Diesel (C10-C28)	850	50	mg/kg	1000	ND	85.2	53-125	2.67	20	
Residual Range Organics (C28-C36)	840	200	"	1000	13	82.7	47-133	3.78	20	
Surrogate: o-Terphenyl	44		"	50.0		87.1	59-131			

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014215261
 Project: KMG - UPRC-63N66W/31SESE

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 B5L3105 - NO PREP										
Duplicate (B5L3105-DUP1)		Source: X512404-01			Prepared: 12/31/2015 Analyzed: 12/31/2015					
pH	7.62		pH Units		7.91			3.73	25	
Batch B5L3106 - NO PREP										
Blank (B5L3106-BLK1)		Prepared: 12/31/2015 Analyzed: 12/31/2015								
Specific Conductance (EC)	0.00290		mmhos/cm							
Duplicate (B5L3106-DUP1)		Source: X512404-01			Prepared: 12/31/2015 Analyzed: 12/31/2015					
Specific Conductance (EC)	0.244		mmhos/cm		0.231			5.47	25	
Batch B6A0701 - NO PREP										
Duplicate (B6A0701-DUP1)		Source: X512404-04			Prepared: 01/07/2016 Analyzed: 01/07/2016					
pH	8.77		pH Units		8.76			0.114	25	

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

John Cocroft
Project Number: 014215261
Project: KMG - UPRC-63N66W/31SESE

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President



January 07, 2016

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - UPRC-63N66W/31SESE

Project Number - 014215261/WO# 889761

Attached are your analytical results for KMG - UPRC-63N66W/31SESE received by Origins Laboratory, Inc. January 06, 2016. This project is associated with Origins project number X601043-01.

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

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

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

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

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

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



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

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

John Cocroft
Project Number: 014215261/WO# 88976120
Project: KMG - UPRC-63N66W/31SESE

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01 @ 4"	X601043-01	Soil	January 6, 2016 13:05	01/06/2016 16:10
B02 @ 4"	X601043-02	Soil	January 6, 2016 13:10	01/06/2016 16:10
B03 @ 4"	X601043-03	Soil	January 6, 2016 13:15	01/06/2016 16:10

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

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

John Cocroft
 Project Number: 014215261/WO# 88976120
 Project: KMG - UPRC-63N66W/31SESE

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X601043 Client: LTE
 Client Project ID: UPRC 63N-66W/31SESE
 Checklist Completed by: Jesse Smith Shipped Via: HRD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 1/6/16 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 1.7 °C _____ / _____ °C _____ / _____ °C _____ / _____ °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"/>			
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"/>	<input checked="" type="checkbox"/>		PH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with 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) Jesse Smith Date/Time Reviewed 1/6/16

Origins Laboratory, Inc.



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

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

John Cocroft
 Project Number: 014215261/WO# 88976120
 Project: KMG - UPRC-63N66W/31SESE

B01 @ 4"
1/6/2016 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X601043-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	260	25	mg/kg	1	B6A0604	01/06/2016	01/06/2016	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	7.31	5.00	mg/kg	25	B6A0605	01/06/2016	01/06/2016	
Benzene	ND	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	
Xylenes, total	ND	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
 Surrogate: Toluene-d8 93.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.5 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.01		pH Units	1	B6A0608	01/06/2016	01/06/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0485		mmhos/cm	"	B6A0609	"	01/06/2016	
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Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014215261/WO# 88976120
 Project: KMG - UPRC-63N66W/31SESE

B02 @ 4"
1/6/2016 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X601043-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6A0604	01/06/2016	01/06/2016	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 74.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	5.04	5.00	mg/kg	25	B6A0605	01/06/2016	01/06/2016	
Benzene	ND	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	
Xylenes, total	ND	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 97.7 % 70-130 " " "
 Surrogate: Toluene-d8 92.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 91.2 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.96		pH Units	1	B6A0608	01/06/2016	01/06/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0594		mmhos/cm	"	B6A0609	"	01/06/2016	
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Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014215261/WO# 88976120
 Project: KMG - UPRC-63N66W/31SESE

B03 @ 4"
1/6/2016 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X601043-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	40	25	mg/kg	1	B6A0604	01/06/2016	01/06/2016	
Residual Range Organics (C28-C36)	ND	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 90.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	7.83	5.00	mg/kg	25	B6A0605	01/06/2016	01/06/2016	
Benzene	ND	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	
Xylenes, total	ND	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 96.2 % 70-130 " " "
 Surrogate: Toluene-d8 91.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 93.6 % 70-130 " " "

pH in Soil by EPA 9045D

pH	9.24		pH Units	1	B6A0608	01/06/2016	01/06/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0767		mmhos/cm	"	B6A0609	"	01/06/2016	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

John Cocroft
 Project Number: 014215261/WO# 88976120
 Project: KMG - UPRC-63N66W/31SESE

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 B6A0605 - EPA 5030 (soil)

Blank (B6A0605-BLK1)

Prepared: 01/06/2016 Analyzed: 01/06/2016

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	64.7		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	59.3		"	62.5		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	59.8		"	62.5		95.7	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

John Cocroft
 Project Number: 014215261/WO# 88976120
 Project: KMG - UPRC-63N66W/31SESE

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 B6A0605 - EPA 5030 (soil)

LCS (B6A0605-BS1)

Prepared: 01/06/2016 Analyzed: 01/06/2016

Benzene	0.090	0.002	mg/kg	0.100		90.3	77.1-124			
Toluene	0.090	0.002	"	0.100		89.7	74.5-128			
Ethylbenzene	0.103	0.002	"	0.100		103	66.4-127			
m,p-Xylene	0.206	0.004	"	0.200		103	76.6-124			
o-Xylene	0.104	0.002	"	0.100		104	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63.0		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	58.0		"	62.5		92.9	70-130			
Surrogate: 4-Bromofluorobenzene	60.9		"	62.5		97.5	70-130			

Origins Laboratory, Inc.



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 Arvada CO 80003

John Cocroft
 Project Number: 014215261/WO# 88976120
 Project: KMG - UPRC-63N66W/31SESE

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 B6A0605 - EPA 5030 (soil)

LCS Dup (B6A0605-BSD1)

Prepared: 01/06/2016 Analyzed: 01/06/2016

Benzene	0.090	0.002	mg/kg	0.100		89.9	77.1-124	0.466	20	
Toluene	0.090	0.002	"	0.100		89.5	74.5-128	0.156	20	
Ethylbenzene	0.100	0.002	"	0.100		99.8	66.4-127	2.81	20	
m,p-Xylene	0.201	0.004	"	0.200		101	76.6-124	2.37	20	
o-Xylene	0.106	0.002	"	0.100		106	76.6-124	1.11	20	
Surrogate: 1,2-Dichloroethane-d4	63.7		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	58.4		"	62.5		93.4	70-130			
Surrogate: 4-Bromofluorobenzene	60.0		"	62.5		96.1	70-130			

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014215261/WO# 88976120
 Project: KMG - UPRC-63N66W/31SESE

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 B6A0604 - EPA 3580

Blank (B6A0604-BLK1)

Prepared: 01/06/2016 Analyzed: 01/06/2016

Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	39		"	50.0		78.6	59-131			

LCS (B6A0604-BS1)

Prepared: 01/06/2016 Analyzed: 01/06/2016

Diesel (C10-C28)	910	50	mg/kg	1000		90.7	64-121			
Residual Range Organics (C28-C36)	970	200	"	1000		96.9	58-124			
Surrogate: o-Terphenyl	49		"	50.0		98.2	59-131			

LCS Dup (B6A0604-BSD1)

Prepared: 01/06/2016 Analyzed: 01/06/2016

Diesel (C10-C28)	980	50	mg/kg	1000		98.5	64-121	8.24	20	
Residual Range Organics (C28-C36)	990	200	"	1000		99.3	58-124	2.48	20	
Surrogate: o-Terphenyl	54		"	50.0		108	59-131			

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014215261/WO# 88976120
 Project: KMG - UPRC-63N66W/31SESE

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 B6A0608 - NO PREP										
Duplicate (B6A0608-DUP1)		Source: X601043-01			Prepared: 01/06/2016 Analyzed: 01/06/2016					
pH	8.97		pH Units		9.01			0.445	25	
Batch B6A0609 - NO PREP										
Blank (B6A0609-BLK1)		Prepared: 01/06/2016 Analyzed: 01/06/2016								
Specific Conductance (EC)	0.00210		mmhos/cm							
Duplicate (B6A0609-DUP1)		Source: X601043-01			Prepared: 01/06/2016 Analyzed: 01/06/2016					
Specific Conductance (EC)	0.0500		mmhos/cm		0.0485			3.05	25	

Origins Laboratory, Inc.



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

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

John Cocroft
Project Number: 014215261/WO# 88976120
Project: KMG - UPRC-63N66W/31SESE

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President



January 08, 2016

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - UPRC-63N66W/31SESE

Project Number - 014215261/WO# 889761

Attached are your analytical results for KMG - UPRC-63N66W/31SESE received by Origins Laboratory, Inc. January 07, 2016. This project is associated with Origins project number X601055-01.

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

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

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

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

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

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



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

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

John Cocroft
Project Number: 014215261/WO# 88976120
Project: KMG - UPRC-63N66W/31SESE

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B04@ 1'	X601055-01	Soil	January 7, 2016 15:10	01/07/2016 16:48
B05@ 1'	X601055-02	Soil	January 7, 2016 15:15	01/07/2016 16:48

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014215261/WO# 88976120
 Project: KMG - UPRC-63N66W/31SESE

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X601055

Client: LTE

Client Project ID: UPRC 63N 66W/31 SESE

Checklist Completed by: Jeff Smith

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

Date/time completed: 1/7/16

Airbill #: NA

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

Cooler Number/Temperature: 1 / 1.1 °C _____ / _____ °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: TD02

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

John Cocroft
 Reviewed by (Project Manager)

1/7/16
 Date/Time Reviewed

Origins Laboratory, Inc.



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

John Cocroft
Project Number: 014215261/WO# 88976120
Project: KMG - UPRC-63N66W/31SESE

B04@ 1'
1/7/2016 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X601055-01 (Soil)

pH in Soil by EPA 9045D

pH	8.30		pH Units	1	B6A0701	01/07/2016	01/07/2016	
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Origins Laboratory, Inc.



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

John Cocroft
Project Number: 014215261/WO# 88976120
Project: KMG - UPRC-63N66W/31SESE

B05@ 1'

1/7/2016 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X601055-02 (Soil)

pH in Soil by EPA 9045D

pH	9.08		pH Units	1	B6A0701	01/07/2016	01/07/2016	
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Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014215261/WO# 88976120
 Project: KMG - UPRC-63N66W/31SESE

Classical Chemistry Parameters - 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 B6A0701 - NO PREP

Duplicate (B6A0701-DUP1)

Source: X512404-04

Prepared: 01/07/2016 Analyzed: 01/07/2016

pH	8.77		pH Units		8.76			0.114	25	
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Origins Laboratory, Inc.



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

John Cocroft
Project Number: 014215261/WO# 88976120
Project: KMG - UPRC-63N66W/31SESE

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President