

**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**FOUR WAY-62N65W/16SENW**  
**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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
MW01	8/9/2016	<1.00	<1.00	1.42	<1.00	45.79	51.54
	1/16/2017	<1.00	<1.00	<1.00	<1.00	45.60	54.40
	4/12/2017	<1.00	<1.00	<1.00	<1.00	43.94	56.06
	7/14/2017	<1.00	<1.00	<1.00	<1.00	48.18	51.82
	10/26/2017	<1.00	<1.00	<1.00	<1.00	50.40	49.60
	1/2/2018	<1.00	<1.00	<1.00	<1.00	47.12	52.88
	4/9/2018	<1.00	<1.00	<1.00	<1.00	43.89	56.11
	7/5/2018	<1.00	<1.00	<1.00	<1.00	47.60	52.40
	10/12/2018	<1.00	<1.00	<1.00	<1.00	50.53	49.47
	1/4/2019	<1.00	<1.00	<1.00	<1.00	46.65	53.35
MW02	8/9/2016	<b>18.1</b>	110	11.7	208	45.78	51.65
	1/16/2017	<b>294</b>	<b>2,000</b>	187	<b>6,750</b>	45.38	54.50
	4/12/2017	<b>1,410</b>	<20.0	<b>848</b>	<b>33,500</b>	43.75	56.13
	7/14/2017	<b>526</b>	<b>7,200</b>	<b>902</b>	<b>22,500</b>	48.13	51.75
	10/26/2017	Free Product - Not Sampled				50.20	49.68
	11/8/2017	<1.00	<1.00	<1.00	29.7	NM	NA
	1/2/2018	<1.00	<1.00	<1.00	4.52	46.92	52.96
	4/9/2018	<b>46.7</b>	59.0	3.65	512	43.68	56.20
	7/5/2018	<b>24.5</b>	24.2	<1.00	505	47.40	52.48
	10/12/2018	<1.00	<1.00	<1.00	<1.00	50.31	49.57
	1/4/2019	<b>18.3</b>	73.8	79.1	253	46.45	53.43
MW03	8/9/2016	<1.00	<1.00	<1.00	<1.00	46.35	51.69
	1/16/2017	<1.00	<1.00	<1.00	<1.00	45.82	54.52
	4/12/2017	<1.00	<1.00	<1.00	<1.00	44.18	56.16
	7/14/2017	<1.00	<1.00	<1.00	<1.00	48.41	51.93
	10/26/2017	<1.00	<1.00	<1.00	<1.00	50.64	49.70
	1/2/2018	<1.00	<1.00	<1.00	<1.00	47.36	52.98
	4/9/2018	<1.00	<1.00	<1.00	<1.00	44.12	56.22
	7/5/2018	<1.00	<1.00	<1.00	<1.00	47.84	52.50
	10/12/2018	<1.00	<1.00	<1.00	<1.00	50.76	49.58
	1/4/2019	<1.00	<1.00	<1.00	<1.00	46.90	53.44
MW04	8/9/2016	<b>6.55</b>	48.6	7.85	216	45.67	51.67
	1/16/2017	<b>415</b>	<b>1,700</b>	122	<b>3,090</b>	45.40	54.50
	4/12/2017	<b>491</b>	491	<b>2,460</b>	<b>3,470</b>	43.71	56.19
	7/14/2017	<b>39.0</b>	57.6	<20.0	183	47.92	51.98
	10/26/2017	<1.00	<1.00	<1.00	<1.00	50.16	49.74



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**FOUR WAY-62N65W/16SEW**  
**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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	1/2/2018	3.51	25.7	1.68	52.6	46.90	53.00
	4/9/2018	<b>12.4</b>	26.4	<1.00	26.4	43.64	56.26
	7/5/2018	<b>35.2</b>	140	5.52	198	47.35	52.55
	10/12/2018	<1.00	<1.00	<1.00	1.42	50.27	49.63
	1/4/2019	<b>52.2</b>	160	6.73	300	46.43	53.47
<hr/>							
MW05	8/9/2016	1.32	8.29	2.4	29.5	45.18	51.60
	1/16/2017	<1.00	<1.00	<1.00	<1.00	44.88	54.40
	4/12/2017	<1.00	<1.00	<1.00	<1.00	43.18	56.10
	7/14/2017	<1.00	<1.00	<1.00	1.03	47.44	51.84
	10/26/2017	<1.00	<1.00	<1.00	<1.00	49.67	49.61
	1/2/2018	<1.00	<1.00	<1.00	<1.00	46.40	52.88
	4/9/2018	<1.00	<1.00	<1.00	<1.00	43.14	56.14
	7/5/2018	<1.00	<1.00	<1.00	<1.00	46.84	52.44
	10/12/2018	<1.00	<1.00	<1.00	<1.00	49.79	49.49
	1/4/2019	<1.00	<1.00	<1.00	<1.00	45.93	53.35
<hr/>							
MW06	8/9/2016	<1.00	<1.00	<1.00	<1.00	45.81	51.84
	1/16/2017	<1.00	<1.00	<1.00	<1.00	45.57	54.63
	4/12/2017	<1.00	<1.00	<1.00	<1.00	43.91	56.29
	7/14/2017	<1.00	<1.00	<1.00	<1.00	48.12	52.08
	10/26/2017	<1.00	<1.00	<1.00	<1.00	50.37	49.83
	1/2/2018	<1.00	<1.00	<1.00	<1.00	47.10	53.10
	4/9/2018	<1.00	<1.00	<1.00	<1.00	43.85	56.35
	7/5/2018	<1.00	<1.00	<1.00	<1.00	47.55	52.65
	10/12/2018	<1.00	<1.00	<1.00	<1.00	50.48	49.72
	1/4/2019	<1.00	<1.00	<1.00	<1.00	45.65	54.55
<hr/>							
<b>COGCC Allowable Levels</b>		<b>5</b>	<b>1000</b>	<b>700</b>	<b>1400</b>		

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





July 09, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - Four Way-62N65W/16SENW Project Number - 014216073/WO#890537**

Attached are your analytical results for KMG - Four Way-62N65W/16SENW received by Origins Laboratory, Inc. July 05, 2018. This project is associated with Origins project number Y807076-01.

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: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SENW

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y807076-01	Water	July 5, 2018 12:25	07/05/2018 15:45
MW02	Y807076-02	Water	July 5, 2018 12:31	07/05/2018 15:45
MW03	Y807076-03	Water	July 5, 2018 12:37	07/05/2018 15:45
MW04	Y807076-04	Water	July 5, 2018 12:45	07/05/2018 15:45
MW05	Y807076-05	Water	July 5, 2018 12:50	07/05/2018 15:45
MW06	Y807076-06	Water	July 5, 2018 12:57	07/05/2018 15:45

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SENW

ORIGINS  
LABORATORY, INC

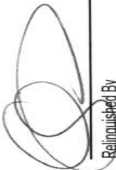
4607676


1725 Elk Place, Denver, CO 80211  
Laboratory # - 303.433.1322

Client: LT Environmental, Inc. Project Manager: Brian Sulzberger  
Project: KMG - Four Way-62N65W/16SENW Project Number: 014216073/WO#89053715

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
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01-001	MM001	Water	7/5/18	1225	GT	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
02-001	MM002	Water		1231		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
03-001	MM003	Water		1237		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
04-001	MM004	Water		1245		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
05-001	MM005	Water		1250		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
06-001	MM006	Water		1257		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C

Relinquished By:  Date / Time: 7/5/18 1545

Relinquished By:  Date / Time: 7/5/18 1545

Temperature on Receipt: 14.9

Turn Around Time: ☐ 72-hr ☒ Standard

Same Day: ☐ 24-hr ☐ 48-hr

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SENW

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 1807076

Client: LTE

Client Project ID: KMG - Four Way - 62N65W/1

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 7/5/2018

Airbill #: N/A

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

(Describe)

Cooler Number/Temperature: 1 / 14.9 °C 1 / 1 °C 1 / 1 °C 1 / 1 °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 <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with Na <sub>2</sub> CO <sub>3</sub> +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) JP

Date/Time Reviewed 7/16/18

Origins Laboratory, Inc.

*Jefe Pellegrini*

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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEW

MW01

7/5/2018 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y807076-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8G0901	07/09/2018	07/09/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	95.4 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	93.7 %	84-114	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEnw

**MW02**  
**7/5/2018 12:31:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y807076-02 (Water)**

**BTEX by EPA 8260C**

Benzene	24.5	1.00	ug/L	1	B8G0901	07/09/2018	07/09/2018	
Toluene	24.2	1.00	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	505	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"
Surrogate: Toluene-d8	97.8 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	94.7 %	84-114			"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEnw

MW03  
7/5/2018 12:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y807076-03 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8G0901	07/09/2018	07/09/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	95.0 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	93.7 %	84-114	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger  
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Project: KMG - Four Way-62N65W/16SEnw

**MW04**  
**7/5/2018 12:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y807076-04 (Water)**

**BTEX by EPA 8260C**

Benzene	35.2	1.00	ug/L	1	B8G0901	07/09/2018	07/09/2018
Toluene	140	1.00	"	"	"	"	"
Ethylbenzene	5.52	1.00	"	"	"	"	"
Xylenes, total	198	1.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"
Surrogate: Toluene-d8	97.3 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	94.0 %	84-114			"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEnw

**MW05**  
**7/5/2018 12:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y807076-05 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B8G0901	07/09/2018	07/09/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"	
Surrogate: Toluene-d8	96.2 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.0 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger  
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Project: KMG - Four Way-62N65W/16SEnw

MW06

7/5/2018 12:57:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y807076-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8G0901	07/09/2018	07/09/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	96.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	92.5 %	84-114	"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEW

**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
<b>Batch B8G0901 - EPA 5030B (Water)</b>										
<b>Blank (B8G0901-BLK1)</b>					Prepared: 07/09/2018 Analyzed: 07/09/2018					
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	65		"	62.5	103		84-121			
Surrogate: Toluene-d8	60		"	62.5	95.4		85-115			
Surrogate: 4-Bromofluorobenzene	58		"	62.5	93.6		84-114			

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Brian Sulzberger  
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Project: KMG - Four Way-62N65W/16SEnw

**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
<b>Batch B8G0901 - EPA 5030B (Water)</b>										
<b>LCS (B8G0901-BS1)</b>					Prepared: 07/09/2018 Analyzed: 07/09/2018					
Benzene	53.8	1.00	ug/L	50.0		108	73.3-129			
Toluene	54.0	1.00	"	50.0		108	76.2-123			
Ethylbenzene	55.9	1.00	"	50.0		112	73.6-130			
m,p-Xylene	115	2.00	"	100		115	76.1-126			
o-Xylene	54.2	1.00	"	50.0		108	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.7	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.9	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SENW

**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 B8G0901 - EPA 5030B (Water)**

Matrix Spike (B8G0901-MS1)		Source: Y807076-01			Prepared: 07/09/2018 Analyzed: 07/09/2018					
Benzene	50.9	1.00	ug/L	50.0	ND	102	74-130			
Toluene	52.6	1.00	"	50.0	ND	105	73-131			
Ethylbenzene	54.2	1.00	"	50.0	0.090	108	76-132			
m,p-Xylene	111	2.00	"	100	0.280	111	69-139			
o-Xylene	53.3	1.00	"	50.0	ND	107	74-131			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.4	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.7	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.2	84-114			

Origins Laboratory, Inc.



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4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEW

**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 B8G0901 - EPA 5030B (Water)**

Matrix Spike Dup (B8G0901-MSD1)		Source: Y807076-01			Prepared: 07/09/2018 Analyzed: 07/09/2018					
Benzene	69.5	1.00	ug/L	50.0	ND	139	74-130	30.8	20	QM-07
Toluene	71.1	1.00	"	50.0	ND	142	73-131	29.8	20	QM-07
Ethylbenzene	75.0	1.00	"	50.0	0.090	150	76-132	32.2	20	QM-07
m,p-Xylene	153	2.00	"	100	0.280	153	69-139	31.5	20	QM-07
o-Xylene	70.9	1.00	"	50.0	ND	142	74-131	28.3	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		100	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.5	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.7	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEnw

### Notes and Definitions

U Sample is Non-Detect.

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.



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October 16, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - Four Way-62N65W/16SENW Project Number - 014216073/WO#890537**

Attached are your analytical results for KMG - Four Way-62N65W/16SENW received by Origins Laboratory, Inc. October 12, 2018. This project is associated with Origins project number Y810215-01.

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: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEnw

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y810215-01	Water	October 12, 2018 13:50	10/12/2018 15:45
MW02	Y810215-02	Water	October 12, 2018 14:05	10/12/2018 15:45
MW03	Y810215-03	Water	October 12, 2018 14:19	10/12/2018 15:45
MW04	Y810215-04	Water	October 12, 2018 14:32	10/12/2018 15:45
MW05	Y810215-05	Water	October 12, 2018 14:45	10/12/2018 15:45
MW06	Y810215-06	Water	October 12, 2018 15:00	10/12/2018 15:45

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SENW

ORIGINS  
LABORATORY, INC

7410215

1725 Elk Place, Denver, CO 80211  
Laboratory # - 303.433.1322

Client: LT Environmental, Inc.		Project Manager: Brian Sulzberger		Project Number: 014216073/WO#89053715	
Project: KMG - Four Way-62N65W/16SENW		Sample Date		Sample Time	
Number	Sample Identification	Matrix	Sample Date	Sample Time	Container
01-001	MW01	Water	10/12/18	1350	67 40mL Amber VOA Vial - HC
02-001	MW02	Water		1405	40mL Amber VOA Vial - HC
03-001	MW03	Water		1419	40mL Amber VOA Vial - HC
04-001	MW04	Water		1432	40mL Amber VOA Vial - HC
05-001	MW05	Water		1445	40mL Amber VOA Vial - HC
06-001	MW06	Water		1500	40mL Amber VOA Vial - HC
					BTEX by EPA 8260C
					BTEX by EPA 8260C
					BTEX by EPA 8260C
					BTEX by EPA 8260C
					BTEX by EPA 8260C
					BTEX by EPA 8260C

Temperature on Receipt: 8.1

Turn Around Time: ☐ 72-hr ☒ Standard

Relinquished By: [Signature] Date / Time: 10/12/18 1545

Received By: [Signature] Date / Time: 10/12/18 1545

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: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SENW

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y710215

Client: LTE

Client Project ID: KMG - Four Way 62N65W/16

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 10/15/2018

Airbill #: N/A

Matrix(s) Received: (Check all that apply):

Soil/Solid

☒ Water

Other:

(Describe)

Cooler Number/Temperature: 1 / 8.1 °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 <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

10/15/18  
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEnw

## MW01

10/12/2018 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y810215-01 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8J1501	KDK	10/15/2018	10/16/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	84-121	"	"	"
Surrogate: Toluene-d8	93.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEW

## MW02

10/12/2018 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y810215-02 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8J1501	KDK	10/15/2018	10/16/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	84-121	"	"	"
Surrogate: Toluene-d8	93.2 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	110 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEnw

## MW03

10/12/2018 2:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y810215-03 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8J1501	KDK	10/15/2018	10/16/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	84-121	"	"	"
Surrogate: Toluene-d8	94.4 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	84-114	"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEW

## MW04

10/12/2018 2:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y810215-04 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8J1501	KDK	10/15/2018	10/16/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	1.42	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4  
Surrogate: Toluene-d8  
Surrogate: 4-Bromofluorobenzene

110 % 84-121  
93.4 % 85-115  
112 % 84-114

" "  
" "  
" "

Origins Laboratory, Inc.



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4600 West 60th Avenue  
Arvada CO 80003

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Project: KMG - Four Way-62N65W/16SEnw

## MW05

10/12/2018 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y810215-05 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8J1501	KDK	10/15/2018	10/16/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	84-121	"	"	"
Surrogate: Toluene-d8	93.5 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	111 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEnw

## MW06

10/12/2018 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y810215-06 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8J1501	KDK	10/15/2018	10/16/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	84-121	"	"	"
Surrogate: Toluene-d8	92.6 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	111 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEW

**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 B8J1501 - EPA 5030B (Water)**

**Blank (B8J1501-BLK1)**

Prepared: 10/15/2018 Analyzed: 10/15/2018

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	68		"	62.5	108		84-121			
Surrogate: Toluene-d8	59		"	62.5	93.9		85-115			
Surrogate: 4-Bromofluorobenzene	68		"	62.5	108		84-114			

Origins Laboratory, Inc.



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4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEW

**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
<b>Batch B8J1501 - EPA 5030B (Water)</b>										
<b>Blank (B8J1501-BLK2)</b>					Prepared: 10/15/2018 Analyzed: 10/16/2018					
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	70		"	62.5	112		84-121			
Surrogate: Toluene-d8	59		"	62.5	94.6		85-115			
Surrogate: 4-Bromofluorobenzene	69		"	62.5	110		84-114			

Origins Laboratory, Inc.



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4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEnw

**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
<b>Batch B8J1501 - EPA 5030B (Water)</b>										
<b>LCS (B8J1501-BS1)</b>					Prepared: 10/15/2018 Analyzed: 10/15/2018					
Benzene	56.4	1.00	ug/L	50.0		113	73.3-129			
Toluene	50.7	1.00	"	50.0		101	76.2-123			
Ethylbenzene	52.0	1.00	"	50.0		104	73.6-130			
m,p-Xylene	103	2.00	"	100		103	76.1-126			
o-Xylene	50.9	1.00	"	50.0		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.3	85-115			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		110	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEnw

**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
<b>Batch B8J1501 - EPA 5030B (Water)</b>										
<b>LCS (B8J1501-BS2)</b>					Prepared: 10/15/2018 Analyzed: 10/16/2018					
Benzene	47.5	1.00	ug/L	50.0		94.9	73.3-129			
Toluene	42.0	1.00	"	50.0		84.1	76.2-123			
Ethylbenzene	42.5	1.00	"	50.0		84.9	73.6-130			
m,p-Xylene	86.2	2.00	"	100		86.2	76.1-126			
o-Xylene	43.4	1.00	"	50.0		86.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		108	84-121			
Surrogate: Toluene-d8	59		"	62.5		94.8	85-115			
Surrogate: 4-Bromofluorobenzene	70		"	62.5		112	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEnw

**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 B8J1501 - EPA 5030B (Water)**

Matrix Spike (B8J1501-MS1)		Source: Y810215-01			Prepared: 10/15/2018 Analyzed: 10/16/2018					
Benzene	58.3	1.00	ug/L	50.0	ND	117	74-130			
Toluene	51.9	1.00	"	50.0	ND	104	73-131			
Ethylbenzene	52.6	1.00	"	50.0	ND	105	76-132			
m,p-Xylene	105	2.00	"	100	0.210	105	69-139			
o-Xylene	52.9	1.00	"	50.0	ND	106	74-131			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	84-121			
Surrogate: Toluene-d8	59		"	62.5		94.9	85-115			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		110	84-114			

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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SENW

**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 B8J1501 - EPA 5030B (Water)**

Matrix Spike (B8J1501-MS2)		Source: Y810215-03			Prepared: 10/15/2018 Analyzed: 10/16/2018					
Benzene	53.9	1.00	ug/L	50.0	ND	108	74-130			
Toluene	48.1	1.00	"	50.0	ND	96.1	73-131			
Ethylbenzene	49.3	1.00	"	50.0	ND	98.5	76-132			
m,p-Xylene	97.9	2.00	"	100	ND	97.9	69-139			
o-Xylene	49.8	1.00	"	50.0	ND	99.5	74-131			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	84-121			
Surrogate: Toluene-d8	60		"	62.5		95.3	85-115			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		111	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEW

**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 B8J1501 - EPA 5030B (Water)**

Matrix Spike Dup (B8J1501-MSD1)		Source: Y810215-01			Prepared: 10/15/2018 Analyzed: 10/16/2018					
Benzene	57.4	1.00	ug/L	50.0	ND	115	74-130	1.52	20	
Toluene	51.4	1.00	"	50.0	ND	103	73-131	0.890	20	
Ethylbenzene	52.2	1.00	"	50.0	ND	104	76-132	0.706	20	
m,p-Xylene	103	2.00	"	100	0.210	103	69-139	2.20	20	
o-Xylene	52.6	1.00	"	50.0	ND	105	74-131	0.626	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	84-121			
Surrogate: Toluene-d8	59		"	62.5		93.9	85-115			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		111	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEW

**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 B8J1501 - EPA 5030B (Water)**

Matrix Spike Dup (B8J1501-MSD2)		Source: Y810215-03			Prepared: 10/15/2018 Analyzed: 10/16/2018					
Benzene	57.4	1.00	ug/L	50.0	ND	115	74-130	6.29	20	
Toluene	51.0	1.00	"	50.0	ND	102	73-131	5.92	20	
Ethylbenzene	51.3	1.00	"	50.0	ND	103	76-132	4.14	20	
m,p-Xylene	103	2.00	"	100	ND	103	69-139	5.40	20	
o-Xylene	52.4	1.00	"	50.0	ND	105	74-131	5.24	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.1	85-115			
Surrogate: 4-Bromofluorobenzene	70		"	62.5		112	84-114			

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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEnw

### 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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January 09, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - Four Way-62N65W/16SENW Project Number - 014216073/WO#890537**

Attached are your analytical results for KMG - Four Way-62N65W/16SENW received by Origins Laboratory, Inc. January 04, 2019. This project is associated with Origins project number Y901050-01.

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: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SENW

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y901050-01	Water	January 4, 2019 13:30	01/04/2019 15:15
MW02	Y901050-02	Water	January 4, 2019 13:35	01/04/2019 15:15
MW03	Y901050-03	Water	January 4, 2019 13:40	01/04/2019 15:15
MW04	Y901050-04	Water	January 4, 2019 13:45	01/04/2019 15:15
MW05	Y901050-05	Water	January 4, 2019 13:50	01/04/2019 15:15
MW06	Y901050-06	Water	January 4, 2019 13:55	01/04/2019 15:15

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SENW

ORIGINS  
LABORATORY, INC

7901050

1725 Elk Place, Denver, CO 80211  
Laboratory # - 303.433.1322

Client: LT Environmental, Inc.		Project Manager: Brian Sulzberger						
Project: KMG - Four Way-62N65W/16SENW		Project Number: 014216073/WO#89053715						
Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MM01	Water	1-4-19	1330	DT	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
02-001	MM02	Water		1335		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
03-001	MM03	Water		1340		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
04-001	MM04	Water		1345		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
05-001	MM05	Water		1350		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
06-001	MM06	Water		1355		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C

Relinquished By: *[Signature]* Date / Time: 1-4-19 1515

Received By: *[Signature]* Date / Time: 1-4-19 1515

Relinquished By: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Temperature on Receipt: 15.6

Turn Around Time: ☒ 72-hr ☐ Standard

Same Day: ☐ 24-hr ☐ 48-hr

Origins Laboratory, Inc.

*Jefe Pellegrini*

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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SENW

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: Y901050

Client: LTE

Client Project ID: KMG - Four Way - 62N65W

Checklist Completed by: SG

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

Date/time completed: 1/7/19

Airbill #: \_\_\_\_\_

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

Cooler Number/Temperature: 1 15.6 °C \_\_\_\_\_ °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe)

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 <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		Same Day
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) JP

Date/Time Reviewed 1/8/19

Origins Laboratory, Inc.

*Jefe Pellegrini*

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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEW

MW01

1/4/2019 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y901050-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A0707	KDK	01/07/2019	01/08/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121	"	"	"
Surrogate: Toluene-d8	98.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.8 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEnw

## MW02

1/4/2019 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y901050-02 (Water)

### BTEX by EPA 8260C

Benzene	18.3	1.00	ug/L	1	B9A0707	KDK	01/07/2019	01/08/2019
Toluene	73.8	1.00	"	"	"	KDK	"	"
Ethylbenzene	79.1	1.00	"	"	"	KDK	"	"
Xylenes, total	253	1.00	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	86.2 %	84-121	"	"	"
Surrogate: Toluene-d8	104 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEnw

MW03

1/4/2019 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y901050-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A0707	KDK	01/07/2019	01/08/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121	"	"	"
Surrogate: Toluene-d8	98.6 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEW

## MW04

1/4/2019 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y901050-04 (Water)

### BTEX by EPA 8260C

Benzene	52.2	1.00	ug/L	1	B9A0707	KDK	01/07/2019	01/08/2019
Toluene	160	4.00	"	4	"	JTD	"	01/08/2019
Ethylbenzene	6.73	1.00	"	1	"	KDK	"	01/08/2019
Xylenes, total	300	1.00	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	108 %	84-121	"	"	"
Surrogate: Toluene-d8	97.1 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	84-114	"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEW

## MW05

1/4/2019 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y901050-05 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A0707	KDK	01/07/2019	01/08/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.9 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	84-114	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEnw

## MW06

1/4/2019 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y901050-06 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A0707	KDK	01/07/2019	01/08/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	84-114	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SENW

**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
<b>Batch B9A0707 - EPA 5030B (Water)</b>										
<b>Blank (B9A0707-BLK1)</b>					Prepared: 01/07/2019 Analyzed: 01/07/2019					
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	57		"	62.5		91.9	84-121			
Surrogate: Toluene-d8	65		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SENW

**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
<b>Batch B9A0707 - EPA 5030B (Water)</b>										
<b>LCS (B9A0707-BS1)</b>					Prepared: 01/07/2019 Analyzed: 01/07/2019					
Benzene	47.1	1.00	ug/L	50.0		94.2	73.3-129			
Toluene	47.8	1.00	"	50.0		95.6	76.2-123			
Ethylbenzene	45.2	1.00	"	50.0		90.5	73.6-130			
m,p-Xylene	90.9	2.00	"	100		90.9	76.1-126			
o-Xylene	44.1	1.00	"	50.0		88.1	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.8	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.6	84-114			

Origins Laboratory, Inc.



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Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEW

**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
<b>Batch B9A0707 - EPA 5030B (Water)</b>										
<b>Matrix Spike (B9A0707-MS1)</b>		<b>Source: Y901046-01</b>			Prepared: 01/07/2019 Analyzed: 01/08/2019					
Benzene	45.0	1.00	ug/L	50.0	ND	90.0	74-130			
Toluene	44.4	1.00	"	50.0	0.100	88.6	73-131			
Ethylbenzene	32.2	1.00	"	50.0	0.200	64.1	76-132			QM-07
m,p-Xylene	48.8	2.00	"	100	0.430	48.4	69-139			QM-07
o-Xylene	47.9	1.00	"	50.0	0.520	94.8	74-131			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.0	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEnw

**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 B9A0707 - EPA 5030B (Water)**

Matrix Spike Dup (B9A0707-MSD1)		Source: Y901046-01			Prepared: 01/07/2019 Analyzed: 01/08/2019					
Benzene	51.0	1.00	ug/L	50.0	ND	102	74-130	12.5	20	
Toluene	49.1	1.00	"	50.0	0.100	98.1	73-131	10.1	20	
Ethylbenzene	34.2	1.00	"	50.0	0.200	68.0	76-132	5.84	20	QM-07
m,p-Xylene	49.2	2.00	"	100	0.430	48.8	69-139	0.857	20	QM-07
o-Xylene	49.2	1.00	"	50.0	0.520	97.4	74-131	2.68	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.7	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.6	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	84-114			

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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.

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### Notes and Definitions

U Sample is Non-Detect.

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.

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Jen Pellegrini For Noelle Doyle Mathis, President