

**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**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)
<b>COGCC Allowable Levels</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>		
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
	4/5/2019	<1.00	<1.00	<1.00	<1.00	NM	NA
	7/24/2019	<1.00	<1.00	<1.00	<1.00	45.15	52.18
	10/18/2019	<1.00	<1.00	<1.00	<1.00	47.29	50.04
	1/8/2020	<1.00	<1.00	<1.00	<1.00	43.44	53.89
	4/2/2020	<1.00	<1.00	<1.00	<1.00	39.97	57.36
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
	4/5/2019	<b>191</b>	283	4.04	1,200	NM	NA
	7/24/2019	<b>16.4</b>	80.8	<4.00	316	39.17	58.26
	10/18/2019	<4.00	<4.00	<4.00	<4.00	47.28	50.15
	1/8/2020	<b>23.6</b>	72.4	<4.00	175	43.46	53.97
	4/2/2020	<b>415</b>	<b>1,600</b>	94.1	<b>5,410</b>	39.99	57.44
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



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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)
<b>COGCC Allowable Levels</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>		
	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
	4/5/2019	<1.00	<1.00	<1.00	<1.00	NM	NA
	7/24/2019	<1.00	<1.00	<1.00	<1.00	45.74	52.30
	10/18/2019	<1.00	<1.00	<1.00	<1.00	47.89	50.15
	1/8/2020	<1.00	<1.00	<1.00	<1.00	44.05	53.99
	4/2/2020	<1.00	<1.00	<1.00	<1.00	40.59	57.45
<hr/>							
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
	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
	4/5/2019	<b>168</b>	177	<1.00	198	NM	NA
	7/24/2019	4.56	15.3	<4.00	14.2	45.00	52.34
	10/18/2019	<1.00	<1.00	<1.00	<1.00	47.13	50.21
	1/8/2020	<b>110</b>	<b>565</b>	23.5	964	43.32	54.02
	4/2/2020	<b>88.1</b>	75.7	<4.00	112	39.85	57.49
<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
	4/5/2019	<1.00	<1.00	<1.00	<1.00	NM	NA



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**WELD COUNTY, COLORADO**  
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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)
<b>COGCC Allowable Levels</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>		
	7/24/2019	<1.00	<1.00	<1.00	<1.00	44.59	52.19
	10/18/2019	<1.00	<1.00	<1.00	<1.00	46.70	50.08
	1/8/2020	<1.00	<1.00	<1.00	<1.00	42.88	53.90
	4/2/2020	<1.00	<1.00	<1.00	<1.00	39.40	57.38
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
	4/5/2019	<1.00	<1.00	<1.00	<1.00	NM	NA
	7/24/2019	<1.00	<1.00	<1.00	<1.00	45.21	52.44
	10/18/2019	<1.00	<1.00	<1.00	<1.00	47.36	50.29
	1/8/2020	<1.00	<1.00	<1.00	<1.00	43.55	54.10
	4/2/2020	<1.00	<1.00	<1.00	<1.00	40.08	57.57

Notes: COGCC - Colorado Oil and Gas Conservation Commission

µg/L - micrograms per liter

ft bgs - feet below ground surface

< - less than laboratory reporting limit

NA - not analyzed/not available

Excavation groundwater depth is approximate

NM - not measured

**BOLD** = Analytical result is in exceedance of COGCC Table 910-1 groundwater standards.



April 11, 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. April 05, 2019. This project is associated with Origins project number Y904143-01.

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	Y904143-01	Water	April 5, 2019 11:10	04/05/2019 16:45
MW02	Y904143-02	Water	April 5, 2019 11:21	04/05/2019 16:45
MW03	Y904143-03	Water	April 5, 2019 11:56	04/05/2019 16:45
MW04	Y904143-04	Water	April 5, 2019 11:32	04/05/2019 16:45
MW05	Y904143-05	Water	April 5, 2019 11:00	04/05/2019 16:45
MW06	Y904143-06	Water	April 5, 2019 11:43	04/05/2019 16:45

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

7904143

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	4/5/2019	11:10	HG	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
02-001	MM02	Water		11:21		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
03-001	MM03	Water		11:56		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
04-001	MM04	Water		11:32		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
05-001	MM05	Water		11:00		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
06-001	MM06	Water		11:43		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C

Relinquished By	Date / Time	Relinquished By	Date / Time
<i>[Signature]</i>	4/5/2019 16:45	<i>[Signature]</i>	4/5/19 16:45
Received By	Date / Time	Received By	Date / Time

Temperature on Receipt: 12.2

Turn Around Time:

Same Day ☐ 72-hr ☒ Standard ☐

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: 1904143

Client: LTE

Client Project ID: Four Way-62N65W

Checklist Completed by: JG

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

Date/time completed: 4/8/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 12.2 °C 1 / 12.2 °C 1 / 12.2 °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 ≤ 5°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) JG

4/9/19  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jen 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

4/5/2019 11:10:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y904143-01 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9D0906	JTD	04/09/2019	04/10/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

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

4/5/2019 11:21:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y904143-02 (Water)

### BTEX by EPA 8260D

Benzene	191	4.00	ug/L	4	B9D0906	JTD	04/09/2019	04/10/2019
Toluene	283	4.00	"	"	"	JTD	"	"
Ethylbenzene	4.04	4.00	"	"	"	JTD	"	"
Xylenes, total	1200	4.00	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"	"	"
Surrogate: Toluene-d8	98.4 %	70-130	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"	"	"

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

4/5/2019 11:56:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y904143-03 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9D0906	JTD	04/09/2019	04/10/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

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

106 % 70-130  
98.3 % 70-130  
101 % 70-130

" " "  
" " "  
" " "

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

## MW04

4/5/2019 11:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y904143-04 (Water)

### BTEX by EPA 8260D

Benzene	168	1.00	ug/L	1	B9D0906	JTD	04/09/2019	04/10/2019	
Toluene	177	4.00	"	4	"	JTD	"	04/11/2019	
Ethylbenzene	ND	1.00	"	1	"	JTD	"	04/10/2019	U
Xylenes, total	198	1.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.0 %	70-130	"	"	"

Origins Laboratory, Inc.



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

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

## MW05

4/5/2019 11:00:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y904143-05 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9D0906	JTD	04/09/2019	04/10/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"
Surrogate: Toluene-d8	98.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



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

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

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

**MW06****4/5/2019 11:43:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y904143-06 (Water)****BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9D0906	JTD	04/09/2019	04/10/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
Surrogate: Toluene-d8	98.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

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 8260D - 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 B9D0906 - EPA 5030B (Water)**

**Blank (B9D0906-BLK1)**

Prepared: 04/09/2019 Analyzed: 04/10/2019

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	66		"	62.5	105		70-130			
Surrogate: Toluene-d8	62		"	62.5	99.0		70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102		70-130			

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 8260D - 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 B9D0906 - EPA 5030B (Water)

**LCS (B9D0906-BS1)**

Prepared: 04/09/2019 Analyzed: 04/10/2019

Benzene	53.5	1.00	ug/L	50.0		107	70-130			
Toluene	53.0	1.00	"	50.0		106	70-130			
Ethylbenzene	53.7	1.00	"	50.0		107	70-130			
m,p-Xylene	106	2.00	"	100		106	70-130			
o-Xylene	52.8	1.00	"	50.0		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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 8260D - 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 B9D0906 - EPA 5030B (Water)**

Matrix Spike (B9D0906-MS1)		Source: Y904138-01			Prepared: 04/09/2019 Analyzed: 04/10/2019					
Benzene	47.9	1.00	ug/L	50.0	1.36	93.1	70-130			
Toluene	46.5	1.00	"	50.0	ND	92.9	70-130			
Ethylbenzene	47.0	1.00	"	50.0	0.070	93.9	70-130			
m,p-Xylene	94.5	2.00	"	100	0.320	94.2	70-130			
o-Xylene	47.3	1.00	"	50.0	ND	94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

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 8260D - 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 B9D0906 - EPA 5030B (Water)**

Matrix Spike Dup (B9D0906-MSD1)		Source: Y904138-01			Prepared: 04/09/2019 Analyzed: 04/10/2019					
Benzene	47.9	1.00	ug/L	50.0	1.36	93.1	70-130	0.00	20	
Toluene	46.3	1.00	"	50.0	ND	92.6	70-130	0.367	20	
Ethylbenzene	46.3	1.00	"	50.0	0.070	92.5	70-130	1.56	20	
m,p-Xylene	93.0	2.00	"	100	0.320	92.6	70-130	1.62	20	
o-Xylene	47.4	1.00	"	50.0	ND	94.7	70-130	0.169	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

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.

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.*



July 29, 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. July 24, 2019. This project is associated with Origins project number Y907373-01.

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	Y907373-01	Water	July 24, 2019 12:32	07/24/2019 15:00
MW02	Y907373-02	Water	July 24, 2019 12:40	07/24/2019 15:00
MW03	Y907373-03	Water	July 24, 2019 12:48	07/24/2019 15:00
MW04	Y907373-04	Water	July 24, 2019 12:56	07/24/2019 15:00
MW05	Y907373-05	Water	July 24, 2019 13:05	07/24/2019 15:00
MW06	Y907373-06	Water	July 24, 2019 13:12	07/24/2019 15:00

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

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

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

ORIGINS  
LABORATORY, INC

1907373

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: 014216073WO#89053715						
Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MM01	Water	07/24/2019	1232	HB	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
02-001	MM02	Water		1246		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
03-001	MM03	Water		1248		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
04-001	MM04	Water		1256		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
05-001	MM05	Water		1305		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
06-001	MM06	Water		1312		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Relinquished By: Jeffrey Gullbert Date / Time: 6/12/2019 14:55

Relinquished By: [Signature] Date / Time: 7/24/19 1500

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

Temperature on Receipt: 6.0

Turn Around Time: ☐ 24-hr ☐ 48-hr ☒ 72-hr ☒ Standard

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: 4907373

Client: LTE

Client Project ID: Four Way

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 7/24/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 6.6 °C 1 / 1 °C 1 / 1 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 7/25/19

Origins Laboratory, Inc.

*Jen 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

## MW01

7/24/2019 12:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y907373-01 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G2502	KDK	07/25/2019	07/26/2019	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	97.4 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

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

7/24/2019 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y907373-02 (Water)

### BTEX by EPA 8260D

Benzene	16.4	4.00	ug/L	4	B9G2502	KDK	07/25/2019	07/27/2019	
Toluene	80.8	4.00	"	"	"	KDK	"	"	
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	316	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130			"	"		07/26/2019	
Surrogate: Toluene-d8	100 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"		"	

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

7/24/2019 12:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y907373-03 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G2502	KDK	07/25/2019	07/26/2019	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	98.3 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

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

## MW04

7/24/2019 12:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y907373-04 (Water)

### BTEX by EPA 8260D

Benzene	4.56	4.00	ug/L	4	B9G2502	KDK	07/25/2019	07/26/2019	
Toluene	15.3	4.00	"	"	"	KDK	"	"	
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	14.2	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	

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

7/24/2019 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y907373-05 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G2502	KDK	07/25/2019	07/26/2019	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	98.0 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

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

7/24/2019 1:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y907373-06 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G2502	KDK	07/25/2019	07/26/2019	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	98.4 %	70-130	"	"	"
Surrogate: Toluene-d8	99.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130	"	"	"

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 8260D - 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 B9G2502 - EPA 5030B (Water)**

**Blank (B9G2502-BLK1)**

Prepared: 07/25/2019 Analyzed: 07/26/2019

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	56		"	62.5	90.0	70-130				
Surrogate: Toluene-d8	71		"	62.5	114	70-130				
Surrogate: 4-Bromofluorobenzene	61		"	62.5	97.2	70-130				

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 8260D - 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 B9G2502 - EPA 5030B (Water)

**LCS (B9G2502-BS1)**

Prepared: 07/25/2019 Analyzed: 07/26/2019

Benzene	50.8	1.00	ug/L	50.0		102	70-130			
Toluene	50.6	1.00	"	50.0		101	70-130			
Ethylbenzene	50.4	1.00	"	50.0		101	70-130			
m,p-Xylene	99.9	2.00	"	100		99.9	70-130			
o-Xylene	50.4	1.00	"	50.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.7	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	70-130			

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 8260D - 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 B9G2502 - EPA 5030B (Water)**

Matrix Spike (B9G2502-MS1)		Source: Y907372-01			Prepared: 07/25/2019 Analyzed: 07/26/2019					
Benzene	37.1	1.00	ug/L	50.0	0.480	73.3	70-130			
Toluene	46.9	1.00	"	50.0	ND	93.8	70-130			
Ethylbenzene	46.8	1.00	"	50.0	0.080	93.5	70-130			
m,p-Xylene	93.4	2.00	"	100	0.250	93.2	70-130			
o-Xylene	46.1	1.00	"	50.0	ND	92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		87.6	70-130			
Surrogate: Toluene-d8	71		"	62.5		114	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.5	70-130			

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

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G2502 - EPA 5030B (Water)**

Matrix Spike Dup (B9G2502-MSD1)		Source: Y907372-01			Prepared: 07/25/2019 Analyzed: 07/26/2019					
Benzene	36.2	1.00	ug/L	50.0	0.480	71.5	70-130	2.40	20	
Toluene	46.2	1.00	"	50.0	ND	92.4	70-130	1.52	20	
Ethylbenzene	46.3	1.00	"	50.0	0.080	92.4	70-130	1.22	20	
m,p-Xylene	92.4	2.00	"	100	0.250	92.2	70-130	1.08	20	
o-Xylene	45.3	1.00	"	50.0	ND	90.6	70-130	1.82	20	
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		86.5	70-130			
Surrogate: Toluene-d8	72		"	62.5		115	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	70-130			

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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.

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October 22, 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. October 18, 2019. This project is associated with Origins project number Y910292-01.

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	Y910292-01	Water	October 18, 2019 11:00	10/18/2019 13:18
MW02	Y910292-02	Water	October 18, 2019 11:09	10/18/2019 13:18
MW03	Y910292-03	Water	October 18, 2019 11:16	10/18/2019 13:18
MW04	Y910292-04	Water	October 18, 2019 11:22	10/18/2019 13:18
MW05	Y910292-05	Water	October 18, 2019 11:29	10/18/2019 13:18
MW06	Y910292-06	Water	October 18, 2019 11:37	10/18/2019 13:18

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

4910242

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	MW01	Water	10/18/19	1100	TC	02_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
02-001	MW02	Water		1109		02_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
03-001	MW03	Water		1116		02_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
04-001	MW04	Water		1123		02_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
05-001	MW05	Water		1129		02_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
06-001	MW06	Water		1137		02_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C

Relinquished By: [Signature] Date / Time: 10/18/19 1318  
Received By: [Signature] Date / Time: 10-19-19 1312

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

Temperature on Receipt: 13.1  
Turn Around Time: ☐ 72-hr ☐ Standard ☐ 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: 4910292

Client: LTE

Client Project ID: KMG - Four Way

Checklist Completed by: DL

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

Date/time completed: 10-18-19

Airbill #: NA

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

Cooler Number/Temperature: 1 / 13.1 °C 1 / 1 °C 1 / 1 °C 1 / 1 °C

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>Sampled Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <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? <b>If yes, contact client and note in narrative.</b>		<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) ap

Date/Time Reviewed 10/21/19

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/16SEnw

## MW01

10/18/2019 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y910292-01 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J2101	KDK	10/21/2019	10/22/2019	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	117 %	70-130	"	"	"
Surrogate: Toluene-d8	99.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	115 %	70-130	"	"	"

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

## MW02

10/18/2019 11:09:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y910292-02 (Water)

### BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9J2101	KDK	10/21/2019	10/22/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	116 %	70-130	"	"	"

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

## MW03

10/18/2019 11:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y910292-03 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J2101	KDK	10/21/2019	10/22/2019	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	116 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	112 %	70-130	"	"	"

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

## MW04

10/18/2019 11:22:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y910292-04 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J2101	KDK	10/21/2019	10/22/2019	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	117 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	115 %	70-130	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

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

## MW05

10/18/2019 11:29:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y910292-05 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J2101	KDK	10/21/2019	10/22/2019	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	117 %	70-130	"	"	"
Surrogate: Toluene-d8	99.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	111 %	70-130	"	"	"

Origins Laboratory, Inc.



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

MW06

10/18/2019 11:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y910292-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J2101	KDK	10/21/2019	10/22/2019	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	118 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	115 %	70-130	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9J2101 - EPA 5030B (Water)</b>										
<b>Blank (B9J2101-BLK1)</b>					Prepared: 10/21/2019 Analyzed: 10/21/2019					
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	76		"	62.5	122		70-130			
Surrogate: Toluene-d8	63		"	62.5	101		70-130			
Surrogate: 4-Bromofluorobenzene	73		"	62.5	117		70-130			

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 8260D - 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 B9J2101 - EPA 5030B (Water)**

**LCS (B9J2101-BS1)**

Prepared: 10/21/2019 Analyzed: 10/21/2019

Benzene	50.1	1.00	ug/L	50.0		100	70-130			
Toluene	50.4	1.00	"	50.0		101	70-130			
Ethylbenzene	58.3	1.00	"	50.0		117	70-130			
m,p-Xylene	119	2.00	"	100		119	70-130			
o-Xylene	59.9	1.00	"	50.0		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	77		"	62.5		123	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	74		"	62.5		118	70-130			

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 8260D - 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 B9J2101 - EPA 5030B (Water)**

Matrix Spike (B9J2101-MS1)		Source: Y910291-02			Prepared: 10/21/2019 Analyzed: 10/21/2019					
Benzene	55.7	1.00	ug/L	50.0	1.94	107	70-130			
Toluene	50.2	1.00	"	50.0	ND	100	70-130			
Ethylbenzene	55.3	1.00	"	50.0	ND	111	70-130			
m,p-Xylene	112	2.00	"	100	0.210	112	70-130			
o-Xylene	56.5	1.00	"	50.0	ND	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	71		"	62.5		114	70-130			

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 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B9J2101 - EPA 5030B (Water)**

Matrix Spike Dup (B9J2101-MSD1)		Source: Y910291-02			Prepared: 10/21/2019 Analyzed: 10/21/2019					
Benzene	56.1	1.00	ug/L	50.0	1.94	108	70-130	0.787	20	
Toluene	49.2	1.00	"	50.0	ND	98.5	70-130	2.03	20	
Ethylbenzene	55.8	1.00	"	50.0	ND	112	70-130	0.936	20	
m,p-Xylene	112	2.00	"	100	0.210	112	70-130	0.357	20	
o-Xylene	56.5	1.00	"	50.0	ND	113	70-130	0.0177	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	72		"	62.5		115	70-130			

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.

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.*



January 14, 2020

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 09, 2020. This project is associated with Origins project number Y001118-01.

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	Y001118-01	Water	January 8, 2020 10:04	01/09/2020 13:20
MW02	Y001118-02	Water	January 8, 2020 10:15	01/09/2020 13:20
MW03	Y001118-03	Water	January 8, 2020 10:27	01/09/2020 13:20
MW04	Y001118-04	Water	January 8, 2020 10:40	01/09/2020 13:20
MW05	Y001118-05	Water	January 8, 2020 10:52	01/09/2020 13:20
MW06	Y001118-06	Water	January 8, 2020 11:05	01/09/2020 13:20

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

10/11/18

1/1

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	MW01	Water	11/15/2019	1004	HG	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
02-001	MW02	Water		1016		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
03-001	MW03	Water		1027		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
04-001	MW04	Water		1040		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
05-001	MW05	Water		1052		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
06-001	MW06	Water		1105		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Relinquished By: [Signature] Date / Time: 11/15/2019  
Received By: [Signature] Date / Time: 11/15/2019

Relinquished By: [Signature] Date / Time: 11/15/2019  
Received By: [Signature] Date / Time: 11/15/2019

Temperature on Receipt: 1.4  
Turn Around Time: 1320

Same Day: ☐ 72-hr: ☒  
24-hr: ☐ Standard: ☐  
48-hr: ☐

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: Y001118

Client: LTE

Client Project ID: Four Way

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 1 / 10 / 2020

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.4 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 1/13/20

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

## MW01

1/8/2020 10:04:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y001118-01 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0A1002	KDK	01/10/2020	01/10/2020	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	96.6 %	70-130	"	"	"
Surrogate: Toluene-d8	98.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.1 %	70-130	"	"	"

Origins Laboratory, Inc.



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

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

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

## MW02

1/8/2020 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y001118-02 (Water)

### BTEX by EPA 8260D

Benzene	23.6	4.00	ug/L	4	B0A1002	KDK	01/10/2020	01/10/2020	
Toluene	72.4	4.00	"	"	"	KDK	"	"	
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	175	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130	"	"	"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130	"	"	"	"	"	"	

Origins Laboratory, Inc.



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

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

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

## MW03

1/8/2020 10:27:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y001118-03 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0A1002	KDK	01/10/2020	01/10/2020	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 %	70-130	"	"	"
Surrogate: Toluene-d8	97.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.1 %	70-130	"	"	"

Origins Laboratory, Inc.



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

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

## MW04

1/8/2020 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y001118-04 (Water)

### BTEX by EPA 8260D

Benzene	110	4.00	ug/L	4	B0A1002	KDK	01/10/2020	01/10/2020
Toluene	565	4.00	"	"	"	KDK	"	"
Ethylbenzene	23.5	4.00	"	"	"	KDK	"	"
Xylenes, total	964	4.00	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"

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

## MW05

1/8/2020 10:52:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y001118-05 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0A1002	KDK	01/10/2020	01/10/2020	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	102 %	70-130	"	"	"
Surrogate: Toluene-d8	98.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130	"	"	"

Origins Laboratory, Inc.



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

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

## MW06

1/8/2020 11:05:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y001118-06 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0A1002	KDK	01/10/2020	01/10/2020	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	101 %	70-130	"	"	"
Surrogate: Toluene-d8	99.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Origins Laboratory, Inc.



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

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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0A1002 - EPA 5030B (Water)										
Blank (B0A1002-BLK1)					Prepared: 01/10/2020 Analyzed: 01/10/2020					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	70-130			

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 8260D - 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 B0A1002 - EPA 5030B (Water)

**LCS (B0A1002-BS1)**

Prepared: 01/10/2020 Analyzed: 01/10/2020

Benzene	52.6	1.00	ug/L	50.0		105	70-130			
Toluene	53.2	1.00	"	50.0		106	70-130			
Ethylbenzene	52.6	1.00	"	50.0		105	70-130			
m,p-Xylene	107	2.00	"	100		107	70-130			
o-Xylene	51.0	1.00	"	50.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.0	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B0A1002 - EPA 5030B (Water)</b>										
<b>Matrix Spike (B0A1002-MS1)</b>		<b>Source: Y001107-02</b>			Prepared: 01/10/2020 Analyzed: 01/10/2020					
Benzene	62.4	1.00	ug/L	50.0	ND	125	70-130			
Toluene	64.5	1.00	"	50.0	ND	129	70-130			
Ethylbenzene	65.1	1.00	"	50.0	ND	130	70-130			
m,p-Xylene	132	2.00	"	100	ND	132	70-130			QM-07
o-Xylene	63.4	1.00	"	50.0	ND	127	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		90.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

Origins Laboratory, Inc.



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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B0A1002 - EPA 5030B (Water)**

Matrix Spike Dup (B0A1002-MSD1)		Source: Y001107-02			Prepared: 01/10/2020 Analyzed: 01/10/2020					
Benzene	61.2	1.00	ug/L	50.0	ND	122	70-130	1.94	20	
Toluene	62.6	1.00	"	50.0	ND	125	70-130	2.97	20	
Ethylbenzene	62.5	1.00	"	50.0	ND	125	70-130	4.12	20	
m,p-Xylene	126	2.00	"	100	ND	126	70-130	4.26	20	
o-Xylene	61.1	1.00	"	50.0	ND	122	70-130	3.74	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.3	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

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.



*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.*



April 09, 2020

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. April 02, 2020. This project is associated with Origins project number Y004043-01.

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	Y004043-01	Water	April 2, 2020 13:08	04/02/2020 15:05
MW02	Y004043-02	Water	April 2, 2020 12:10	04/02/2020 15:05
MW03	Y004043-03	Water	April 2, 2020 12:50	04/02/2020 15:05
MW04	Y004043-04	Water	April 2, 2020 11:45	04/02/2020 15:05
MW05	Y004043-05	Water	April 2, 2020 13:27	04/02/2020 15:05
MW06	Y004043-06	Water	April 2, 2020 11:16	04/02/2020 15:05

Origins Laboratory, Inc.



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

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

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

ORIGINS  
LABORATORY, INC

004043

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	MW01	Water	4-2	1308	AG	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
02-001	MW02	Water	4-2	1210	AG	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
03-001	MW03	Water	4-2	1250	AG	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
04-001	MW04	Water	4-2	1145	AG	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
05-001	MW05	Water	4-2	1327	AG	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
06-001	MW06	Water	4-2	1116	AG	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Relinquished By: *Andy Gaby* 4/2/20 1505  
Date / Time

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

Relinquished By: *AG* 4/2/20 1505  
Date / Time

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

Temperature on Receipt: 16  
Turn Around Time: ☐ 72-hr ☒ Standard  
Same Day: ☐ 24-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

Origins Work Order: Y004043

Checklist Completed by: JG

Date/time completed: 4 / 2 / 2020

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

Cooler Number/Temperature: 1 / 1.6 °C 1 / 1 °C 1 / 1 °C (Describe)

Thermometer ID: T003

Sample Receipt Checklist

Client: LTE

Client Project ID: Four Way 62N65W

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

Airbill #: N/A

Effective Date: 01/09/12

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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) Jm Date/Time Reviewed 4-3-20

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

4/2/2020 1:08:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y004043-01 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0D0214	KDK	04/02/2020	04/03/2020	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	103 %	70-130			"	"	"
Surrogate: Toluene-d8	103 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	119 %	70-130			"	"	"

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

4/2/2020 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y004043-02 (Water)

### BTEX by EPA 8260D

Benzene	415	100	ug/L	100	B0D0214	ZZZ	04/02/2020	04/06/2020
Toluene	1600	100	"	"	"	ZZZ	"	"
Ethylbenzene	94.1	1.00	"	1	"	KDK	"	04/03/2020
Xylenes, total	5410	100	"	100	"	ZZZ	"	04/06/2020
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"		04/03/2020
Surrogate: Toluene-d8	112 %	70-130			"	"		"
Surrogate: 4-Bromofluorobenzene	120 %	70-130			"	"		"

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

4/2/2020 12:50:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y004043-03 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0D0214	KDK	04/02/2020	04/03/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	04/06/2020	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	04/03/2020	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	04/06/2020	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	04/03/2020
Surrogate: Toluene-d8	104 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	118 %	70-130			"	"	"

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

4/2/2020 11:45:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y004043-04 (Water)

### BTEX by EPA 8260D

Benzene	88.1	4.00	ug/L	4	B0D0214	KDK	04/02/2020	04/03/2020	
Toluene	75.7	4.00	"	"	"	KDK	"	"	
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	112	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	118 %	70-130			"	"	"	"

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

4/2/2020 1:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y004043-05 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0D0214	KDK	04/02/2020	04/03/2020	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  
Surrogate: Toluene-d8  
Surrogate: 4-Bromofluorobenzene

103 % 70-130  
104 % 70-130  
118 % 70-130

" " "  
" " "  
" " "

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

## MW06

4/2/2020 11:16:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y004043-06 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0D0214	KDK	04/02/2020	04/03/2020	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	103 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	118 %	70-130	"	"	"

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 8260D - 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 B0D0214 - EPA 5030B (Water)**

**Blank (B0D0214-BLK1)**

Prepared: 04/02/2020 Analyzed: 04/03/2020

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5	101		70-130			
Surrogate: Toluene-d8	65		"	62.5	104		70-130			
Surrogate: 4-Bromofluorobenzene	73		"	62.5	117		70-130			

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 8260D - 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 B0D0214 - EPA 5030B (Water)

**LCS (B0D0214-BS1)**

Prepared: 04/02/2020 Analyzed: 04/03/2020

Benzene	53.1	1.00	ug/L	50.0		106	70-130			
Toluene	58.3	1.00	"	50.0		117	70-130			
Ethylbenzene	55.7	1.00	"	50.0		111	70-130			
m,p-Xylene	111	2.00	"	100		111	70-130			
o-Xylene	52.6	1.00	"	50.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.8	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	75		"	62.5		120	70-130			

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 8260D - 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 B0D0214 - EPA 5030B (Water)**

Matrix Spike (B0D0214-MS1)		Source: Y004042-01			Prepared: 04/02/2020 Analyzed: 04/03/2020					
Benzene	58.3	1.00	ug/L	50.0	ND	117	70-130			
Toluene	64.0	1.00	"	50.0	ND	128	70-130			
Ethylbenzene	60.6	1.00	"	50.0	ND	121	70-130			
m,p-Xylene	121	2.00	"	100	ND	121	70-130			
o-Xylene	57.1	1.00	"	50.0	ND	114	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.5	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	73		"	62.5		117	70-130			

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
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Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEW

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0D0214 - EPA 5030B (Water)**

Matrix Spike Dup (B0D0214-MSD1)		Source: Y004042-01			Prepared: 04/02/2020 Analyzed: 04/03/2020					
Benzene	51.3	1.00	ug/L	50.0	ND	103	70-130	12.7	20	
Toluene	56.4	1.00	"	50.0	ND	113	70-130	12.6	20	
Ethylbenzene	52.2	1.00	"	50.0	ND	104	70-130	14.9	20	
m,p-Xylene	105	2.00	"	100	ND	105	70-130	13.9	20	
o-Xylene	50.6	1.00	"	50.0	ND	101	70-130	12.0	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.3	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	74		"	62.5		118	70-130			

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.

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