

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
PC GAS UNIT #1-26
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)
COGCC Allowable Levels		5	560	700	1400		
MW01	10/10/2018	3,780	<20.0	1,720	64.4	2.88	94.64
	1/4/2019	1,690	<4.00	938	22.8	4.20	93.32
	4/1/2019	570	<4.00	231	<4.00	5.87	91.65
	7/12/2019	2,150	<4.00	425	<4.00	4.55	92.97
	10/3/2019	1,620	<4.00	795	<4.00	2.98	94.54
MW02	10/10/2018	7.68	<4.00	14.8	317	2.50	94.67
	1/4/2019	11.2	<1.00	12.8	37.3	3.84	93.33
	4/1/2019	26.5	<1.00	43.2	378	4.52	92.65
	7/12/2019	12.9	<1.00	17.7	<1.00	4.22	92.95
	10/3/2019	9.32	<4.00	4.92	<4.00	2.64	94.53
MW03	10/10/2018	75.3	<4.00	606	2,720	3.11	94.69
	1/4/2019	38.2	<1.00	382	986	4.43	93.37
	4/1/2019	72.2	<4.00	485	1,350	5.13	92.67
	7/12/2019	64.4	<1.00	408	1,030	4.82	92.98
	10/3/2019	24.1	<4.00	277	194	3.21	94.59
MW04	10/10/2018	<1.00	<1.00	<1.00	<1.00	2.44	94.67
	1/4/2019	<1.00	<1.00	<1.00	<1.00	3.77	93.34
	4/1/2019	<1.00	<1.00	<1.00	<1.00	4.43	92.68
	7/12/2019	<1.00	<1.00	<1.00	<1.00	9.12	87.99
	10/3/2019	<1.00	<1.00	<1.00	<1.00	2.58	94.53
MW05	10/10/2018	<4.00	<4.00	70.0	596	2.60	94.69
	1/4/2019	<1.00	<1.00	<1.00	3.28	3.95	93.34
	4/1/2019	<1.00	<1.00	2.21	16.4	4.61	92.68
	7/12/2019	<1.00	<1.00	<1.00	<1.00	5.32	91.97
	10/3/2019	<1.00	<1.00	<1.00	<1.00	2.73	94.56
MW06	10/10/2018	<4.00	<4.00	143	1,140	2.43	94.64
	1/4/2019	<1.00	<1.00	52.0	121	3.76	93.31
	4/1/2019	<1.00	<1.00	37.5	71.8	5.42	91.65
	7/12/2019	<1.00	<1.00	<1.00	204	4.13	92.94
	10/3/2019	<1.00	<1.00	17.2	2.94	2.52	94.55
MW07	12/14/2018	3,620	<1.00	1,080	14,700	4.07	93.70
	1/4/2019	2,120	<1.00	50.0	8,880	4.53	93.24
	4/1/2019	436	<50.0	<50.0	2,410	5.12	92.65
	7/12/2019	163	<10.0	<10.0	33.2	4.84	92.93



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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)
COGCC Allowable Levels		5	560	700	1400		
	10/3/2019	1,770	<50.0	202	1,070	3.35	94.42
MW08	12/14/2018	468	<1.00	151	2,690	4.31	94.71
	1/4/2019	1,590	<1.00	44.0	5,200	4.79	94.23
	4/1/2019	1,460	<50.0	250	3,840	5.39	93.63
	7/12/2019	1,990	<20.0	140	3,130	5.13	93.89
	10/3/2019	3,070	<50.0	376	3,260	3.53	95.49
MW09	12/14/2018	41.6	<1.00	281	2,630	3.94	93.71
	1/4/2019	18.8	<1.00	18.8	720	4.31	93.34
	4/1/2019	13.4	<4.00	35.9	139	4.95	92.70
	7/12/2019	33.8	<1.00	107	271	4.69	92.96
	10/3/2019	27.7	<1.00	78.1	249	3.14	94.51
MW10	12/14/2018	<1.00	<1.00	<1.00	<1.00	3.10	93.66
	1/4/2019	<1.00	<1.00	<1.00	<1.00	3.44	93.32
	4/1/2019	<1.00	<1.00	<1.00	<1.00	4.12	92.64
	7/12/2019	<1.00	<1.00	<1.00	<1.00	3.81	92.95
	10/3/2019	<1.00	<1.00	<1.00	<1.00	2.29	94.47

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 08, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - PC Gas Unit #1-26

Project Number - 014218069/WO #895382

Attached are your analytical results for KMG - PC Gas Unit #1-26 received by Origins Laboratory, Inc. April 01, 2019. This project is associated with Origins project number Y904030-01.

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: 014218069/WO #89538280
Project: KMG - PC Gas Unit #1-26

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y904030-01	Water	April 1, 2019 12:40	04/01/2019 17:00
MW02	Y904030-02	Water	April 1, 2019 12:47	04/01/2019 17:00
MW03	Y904030-03	Water	April 1, 2019 12:54	04/01/2019 17:00
MW04	Y904030-04	Water	April 1, 2019 13:02	04/01/2019 17:00
MW05	Y904030-05	Water	April 1, 2019 13:10	04/01/2019 17:00
MW06	Y904030-06	Water	April 1, 2019 13:17	04/01/2019 17:00
MW07	Y904030-07	Water	April 1, 2019 13:24	04/01/2019 17:00
MW08	Y904030-08	Water	April 1, 2019 13:32	04/01/2019 17:00
MW09	Y904030-09	Water	April 1, 2019 13:40	04/01/2019 17:00
MW10	Y904030-10	Water	April 1, 2019 13:47	04/01/2019 17:00

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.

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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26



Y904030

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

Client: LT Environmental, Inc. Project Manager: Brian Sulzberger
 Project: KMG - PC Gas Unit #1-26 Project Number: 014218069/WO #89538280

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analysis
01-001	MM01	Water	4/11/2019	12:40	HG	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
02-001	MM02	Water	4/11/2019	12:47	HG	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
03-001	MM03	Water	4/11/2019	12:54	HG	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
04-001	MM04	Water	4/11/2019	13:02	HG	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
05-001	MM05	Water	4/11/2019	13:10	HG	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
06-001	MM06	Water	4/11/2019	13:17	HG	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
07-001	MM07	Water	4/11/2019	13:24	HG	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
08-001	MM08	Water	4/11/2019	13:32	HG	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
09-001	MM09	Water	4/11/2019	13:40	HG	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
10-001	MM10	Water	4/11/2019	13:47	HG	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C

Temperature on Receipt: 73
 Turn Around Time: Same Day 24 hr 72 hr Standard 48 hr

Relinquished By: _____ Date / Time: _____
 Received By: _____ Date / Time: _____

Relinquished By: *Matthew Fulbright* Date / Time: 4/11/2019 1:00
 Received By: _____ Date / Time: 4-14-19 7:00

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: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y904030

Client: LTE

Client Project ID: KMG - PC Gas Unit

Checklist Completed by: JP

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

Date/time completed: 4/1/19

Airbill #: NA

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

Cooler Number/Temperature: 1 / 2-8 °C / °C / °C / °C (Describe)

Thermometer ID: TOU3

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 4-2-19

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW01

4/1/2019 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904030-01 (Water)

BTEX by EPA 8260C

Benzene	570	4.00	ug/L	4	B9D0305	JTD	04/03/2019	04/04/2019	
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	231	4.00	"	"	"	JTD	"	"	
Xylenes, total	ND	4.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW02

4/1/2019 12:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904030-02 (Water)

BTEX by EPA 8260C

Benzene	26.5	1.00	ug/L	1	B9D0305	JTD	04/03/2019	04/04/2019	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	43.2	1.00	"	"	"	JTD	"	"	
Xylenes, total	378	1.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.1 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW03

4/1/2019 12:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904030-03 (Water)

BTEX by EPA 8260C

Benzene	72.2	4.00	ug/L	4	B9D0305	JTD	04/03/2019	04/04/2019	
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	485	4.00	"	"	"	JTD	"	"	
Xylenes, total	1350	4.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	98.6 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW04

4/1/2019 1:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904030-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9D0305	JTD	04/03/2019	04/04/2019	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 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	97.8 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW05

4/1/2019 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904030-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9D0305	JTD	04/03/2019	04/04/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	2.21	1.00	"	"	"	JTD	"	"	
Xylenes, total	16.4	1.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %	84-121			"	"	"		
Surrogate: Toluene-d8	98.3 %	85-115			"	"	"		
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"		

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW06

4/1/2019 1:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904030-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9D0305	JTD	04/03/2019	04/04/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	37.5	1.00	"	"	"	JTD	"	"	
Xylenes, total	71.8	1.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	113 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW07

4/1/2019 1:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904030-07 (Water)

BTEX by EPA 8260C

Benzene	436	50.0	ug/L	50	B9D0305	JTD	04/03/2019	04/04/2019	
Toluene	ND	50.0	"	"	"	JTD	"	"	U
Ethylbenzene	ND	50.0	"	"	"	JTD	"	"	U
Xylenes, total	2410	50.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	97.9 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW08

4/1/2019 1:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904030-08 (Water)

BTEX by EPA 8260C

Benzene	1460	50.0	ug/L	50	B9D0305	JTD	04/03/2019	04/04/2019	
Toluene	ND	50.0	"	"	"	JTD	"	"	U
Ethylbenzene	250	50.0	"	"	"	JTD	"	"	
Xylenes, total	3840	50.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	97.7 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW09

4/1/2019 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904030-09 (Water)

BTEX by EPA 8260C

Benzene	13.4	4.00	ug/L	4	B9D0305	JTD	04/03/2019	04/04/2019	
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	35.9	4.00	"	"	"	JTD	"	"	
Xylenes, total	139	4.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW10

4/1/2019 1:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904030-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9D0305	JTD	04/03/2019	04/04/2019	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 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	"	

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: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

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 B9D0305 - EPA 5030B (Water)

Blank (B9D0305-BLK1)

Prepared: 04/03/2019 Analyzed: 04/04/2019

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	64		"	62.5	102		84-121			
Surrogate: Toluene-d8	61		"	62.5	97.2		85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5	104		84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

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 B9D0305 - EPA 5030B (Water)

LCS (B9D0305-BS1)

Prepared: 04/03/2019 Analyzed: 04/04/2019

Benzene	53.3	1.00	ug/L	50.0		107	73.3-129			
Toluene	51.1	1.00	"	50.0		102	76.2-123			
Ethylbenzene	51.8	1.00	"	50.0		104	73.6-130			
m,p-Xylene	102	2.00	"	100		102	76.1-126			
o-Xylene	51.3	1.00	"	50.0		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.9	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.4	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

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 B9D0305 - EPA 5030B (Water)

Matrix Spike (B9D0305-MS1)	Source: Y904016-05			Prepared: 04/03/2019 Analyzed: 04/04/2019						
Benzene	52.3	1.00	ug/L	50.0	ND	105	74-130			
Toluene	51.2	1.00	"	50.0	ND	102	73-131			
Ethylbenzene	51.7	1.00	"	50.0	ND	103	76-132			
m,p-Xylene	103	2.00	"	100	ND	103	69-139			
o-Xylene	51.7	1.00	"	50.0	ND	103	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.2	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.1	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

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 B9D0305 - EPA 5030B (Water)

Matrix Spike Dup (B9D0305-MSD1)	Source: Y904016-05			Prepared: 04/03/2019 Analyzed: 04/04/2019						
Benzene	53.2	1.00	ug/L	50.0	ND	106	74-130	1.57	20	
Toluene	52.1	1.00	"	50.0	ND	104	73-131	1.70	20	
Ethylbenzene	52.5	1.00	"	50.0	ND	105	76-132	1.56	20	
m,p-Xylene	105	2.00	"	100	ND	105	69-139	1.06	20	
o-Xylene	51.9	1.00	"	50.0	ND	104	74-131	0.444	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.4	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.3	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

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: 014218069/WO #89538280
Project: KMG - PC Gas Unit #1-26

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 16, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - PC Gas Unit #1-26

Project Number - 014218069/WO #895382

Attached are your analytical results for KMG - PC Gas Unit #1-26 received by Origins Laboratory, Inc. July 12, 2019. This project is associated with Origins project number Y907202-01.

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

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

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

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

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

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



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

Brian Sulzberger
Project Number: 014218069/WO #89538280
Project: KMG - PC Gas Unit #1-26

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y907202-01	Water	July 12, 2019 15:10	07/12/2019 16:50
MW02	Y907202-02	Water	July 12, 2019 15:05	07/12/2019 16:50
MW03	Y907202-03	Water	July 12, 2019 15:09	07/12/2019 16:50
MW04	Y907202-04	Water	July 12, 2019 15:15	07/12/2019 16:50
MW05	Y907202-05	Water	July 12, 2019 15:20	07/12/2019 16:50
MW06	Y907202-06	Water	July 12, 2019 15:26	07/12/2019 16:50
MW07	Y907202-07	Water	July 12, 2019 15:30	07/12/2019 16:50
MW08	Y907202-08	Water	July 12, 2019 15:36	07/12/2019 16:50
MW09	Y907202-09	Water	July 12, 2019 15:41	07/12/2019 16:50
MW10	Y907202-10	Water	July 12, 2019 15:47	07/12/2019 16:50

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

ORIGINS
 LABORATORY, INC

Y90720L

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

Client: LT Environmental, Inc. Project Manager: Brian Sulzberger
 Project: KMG - PC Gas Unit #1-26 Project Number: 014218069/WO #89538280

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MW01	Water	7/12/19	3:10 pm	DH + CM	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
02-001	MW02	Water		3:05 pm		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
03-001	MW03	Water		15:09		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
04-001	MW04	Water		15:15		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
05-001	MW05	Water		15:20		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
06-001	MW06	Water		15:26		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
07-001	MW07	Water		15:30		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
08-001	MW08	Water		15:36		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
09-001	MW09	Water		15:41		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
10-001	MW10	Water		15:47		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C

Relinquished By: Chris Mathis 7/12/19 Date / Time: 1650
 Received By: _____ Date / Time: _____
 Relinquished By: [Signature] 7/12/19 Date / Time: 1650
 Received By: _____ Date / Time: _____
 Temperature on Receipt: 88
 Turn Around Time: 72-hr Standard
 24-hr 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: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y907202

Client: LTE

Client Project ID: KMG-PC Gas Unit # 1-26

Checklist Completed by: Jo KDK

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

Date/time completed: 07 / 15 / 2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 8.8 °C / °C / °C / °C

Thermometer ID: T003

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 7/16/19

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW01

7/12/2019 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907202-01 (Water)

BTEX by EPA 8260D

Benzene	2150	20.0	ug/L	20	B9G1502	KDK	07/15/2019	07/16/2019	
Toluene	ND	4.00	"	4	"	KDK	"	07/15/2019	U
Ethylbenzene	425	4.00	"	"	"	KDK	"	"	
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"		"	
Surrogate: Toluene-d8	103 %	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: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW02

7/12/2019 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907202-02 (Water)

BTEX by EPA 8260D

Benzene	12.9	1.00	ug/L	1	B9G1502	KDK	07/15/2019	07/15/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	17.7	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW03

7/12/2019 3:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907202-03 (Water)

BTEX by EPA 8260D

Benzene	64.4	1.00	ug/L	1	B9G1502	KDK	07/15/2019	07/15/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	408	10.0	"	10	"	KDK	"	07/16/2019	
Xylenes, total	1030	10.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"		07/15/2019	
Surrogate: Toluene-d8	109 %	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: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW04

7/12/2019 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907202-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G1502	KDK	07/15/2019	07/15/2019	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	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.6 %	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: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW05

7/12/2019 3:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907202-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G1502	KDK	07/15/2019	07/15/2019	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	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW06

7/12/2019 3:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907202-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G1502	KDK	07/15/2019	07/15/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	204	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"		"	
Surrogate: Toluene-d8	101 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"		"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW07

7/12/2019 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907202-07 (Water)

BTEX by EPA 8260D

Benzene	163	10.0	ug/L	10	B9G1502	KDK	07/15/2019	07/15/2019	
Toluene	ND	10.0	"	"	"	KDK	"	"	U
Ethylbenzene	ND	10.0	"	"	"	KDK	"	"	U
Xylenes, total	33.2	10.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	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: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW08

7/12/2019 3:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907202-08 (Water)

BTEX by EPA 8260D

Benzene	1990	20.0	ug/L	20	B9G1502	KDK	07/15/2019	07/15/2019	
Toluene	ND	20.0	"	"	"	KDK	"	"	U
Ethylbenzene	140	20.0	"	"	"	KDK	"	"	
Xylenes, total	3130	20.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	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: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW09

7/12/2019 3:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907202-09 (Water)

BTEX by EPA 8260D

Benzene	33.8	1.00	ug/L	1	B9G1502	KDK	07/15/2019	07/15/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	107	1.00	"	"	"	KDK	"	"	
Xylenes, total	271	1.00	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	104 %			70-130		"	"	"	
Surrogate: Toluene-d8	102 %			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: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW10

7/12/2019 3:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907202-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G1502	KDK	07/15/2019	07/15/2019	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	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	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: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

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 B9G1502 - EPA 5030B (Water)

Blank (B9G1502-BLK1)

Prepared: 07/15/2019 Analyzed: 07/15/2019

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	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

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 B9G1502 - EPA 5030B (Water)

LCS (B9G1502-BS1)

Prepared: 07/15/2019 Analyzed: 07/15/2019

Benzene	45.5	1.00	ug/L	50.0		91.0	70-130			
Toluene	46.2	1.00	"	50.0		92.5	70-130			
Ethylbenzene	45.7	1.00	"	50.0		91.3	70-130			
m,p-Xylene	91.8	2.00	"	100		91.8	70-130			
o-Xylene	45.9	1.00	"	50.0		91.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.2	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	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: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

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 B9G1502 - EPA 5030B (Water)

Matrix Spike (B9G1502-MS1)	Source: Y907202-02			Prepared: 07/15/2019 Analyzed: 07/15/2019						
Benzene	52.4	1.00	ug/L	50.0	12.9	79.0	70-130			
Toluene	43.9	1.00	"	50.0	ND	87.9	70-130			
Ethylbenzene	52.6	1.00	"	50.0	17.7	69.8	70-130			QM-07
m,p-Xylene	85.8	2.00	"	100	ND	85.8	70-130			
o-Xylene	44.9	1.00	"	50.0	0.160	89.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.3	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	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: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

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 B9G1502 - EPA 5030B (Water)

Matrix Spike Dup (B9G1502-MSD1)	Source: Y907202-02			Prepared: 07/15/2019 Analyzed: 07/15/2019						
Benzene	51.7	1.00	ug/L	50.0	12.9	77.7	70-130	1.25	20	
Toluene	43.4	1.00	"	50.0	ND	86.8	70-130	1.26	20	
Ethylbenzene	51.4	1.00	"	50.0	17.7	67.4	70-130	2.31	20	QM-07
m,p-Xylene	84.3	2.00	"	100	ND	84.3	70-130	1.74	20	
o-Xylene	44.5	1.00	"	50.0	0.160	88.6	70-130	0.918	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.1	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	70-130			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: 014218069/WO #89538280
Project: KMG - PC Gas Unit #1-26

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.

October 08, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - PC Gas Unit #1-26

Project Number - 014218069/WO #895382

Attached are your analytical results for KMG - PC Gas Unit #1-26 received by Origins Laboratory, Inc. October 03, 2019. This project is associated with Origins project number Y910069-01.

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

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

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

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

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

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



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

Brian Sulzberger
Project Number: 014218069/WO #89538280
Project: KMG - PC Gas Unit #1-26

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y910069-01	Water	October 3, 2019 11:40	10/03/2019 17:26
MW02	Y910069-02	Water	October 3, 2019 11:45	10/03/2019 17:26
MW03	Y910069-03	Water	October 3, 2019 11:50	10/03/2019 17:26
MW04	Y910069-04	Water	October 3, 2019 11:55	10/03/2019 17:26
MW05	Y910069-05	Water	October 3, 2019 12:00	10/03/2019 17:26
MW06	Y910069-06	Water	October 3, 2019 12:05	10/03/2019 17:26
MW07	Y910069-07	Water	October 3, 2019 12:10	10/03/2019 17:26
MW08	Y910069-08	Water	October 3, 2019 12:15	10/03/2019 17:26
MW09	Y910069-09	Water	October 3, 2019 12:20	10/03/2019 17:26
MW10	Y910069-10	Water	October 3, 2019 12:25	10/03/2019 17:26

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: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

ORIGINS
 LABORATORY, INC
 7910069
 10/3/19

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

Client: LT Environmental, Inc. Project Manager: Brian Sulzberger
 Project: KMG - PC Gas Unit #1-26 Project Number: 014218069/WO #89538280

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MM01	Water	10-3-19	1140	RJ	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
02-001	MM02	Water		1115	RJ	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
03-001	MM03	Water		1150	RJ	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
04-001	MM04	Water		1155	RJ	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
05-001	MM05	Water		1200	RJ	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
06-001	MM06	Water		1205	RJ	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
07-001	MM07	Water		1210	RJ	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
08-001	MM08	Water		1215	RJ	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
09-001	MM09	Water		1220	RJ	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C
10-001	MM10	Water		1225	RJ	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C

Temperature on Receipt: 13.6
 Turn Around Time: 72-hr Standard 48-hr
 Same Day: 24-hr 48-hr

Relinquished By: Ryan Seaberg Date / Time: 10-3-19 1706
 Relinquished By: [Signature] Date / Time: 10-3-19 1726
 Received By: [Signature] Date / Time: [Blank]

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: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

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

Sample Receipt Checklist

Origins Work Order: 1910069 Client: LTE
 Client Project ID: PC Gas Unit 1-26

Checklist Completed by: JG Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 10/4/2019 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 13.6 °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 ⁽¹⁾ ?		<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄ / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) JP Date/Time Reviewed 10/7/19

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: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW01

10/3/2019 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910069-01 (Water)

BTEX by EPA 8260D

Benzene	1620	50.0	ug/L	50	B9J0405	KDK	10/04/2019	10/07/2019	
Toluene	ND	4.00	"	4	"	KDK	"	10/05/2019	U
Ethylbenzene	795	4.00	"	"	"	KDK	"	"	
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	88.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.2 %	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: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW02

10/3/2019 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910069-02 (Water)

BTEX by EPA 8260D

Benzene	9.32	4.00	ug/L	4	B9J0405	KDK	10/04/2019	10/05/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	4.92	4.00	"	"	"	KDK	"	"	
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.7 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW03

10/3/2019 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910069-03 (Water)

BTEX by EPA 8260D

Benzene	24.1	4.00	ug/L	4	B9J0405	KDK	10/04/2019	10/05/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	277	4.00	"	"	"	KDK	"	"	
Xylenes, total	194	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %	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: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW04

10/3/2019 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910069-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J0405	KDK	10/04/2019	10/05/2019	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	98.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.5 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW05

10/3/2019 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910069-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J0405	KDK	10/04/2019	10/05/2019	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	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %	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: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW06

10/3/2019 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910069-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J0405	KDK	10/04/2019	10/05/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	17.2	1.00	"	"	"	KDK	"	"	
Xylenes, total	2.94	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130				"	"	"	
Surrogate: Toluene-d8	99.3 %	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: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW07

10/3/2019 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910069-07 (Water)

BTEX by EPA 8260D

Benzene	1770	50.0	ug/L	50	B9J0405	KDK	10/04/2019	10/05/2019	
Toluene	ND	50.0	"	"	"	KDK	"	"	U
Ethylbenzene	202	50.0	"	"	"	KDK	"	"	
Xylenes, total	1070	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW08

10/3/2019 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910069-08 (Water)

BTEX by EPA 8260D

Benzene	3070	50.0	ug/L	50	B9J0405	KDK	10/04/2019	10/05/2019	
Toluene	ND	50.0	"	"	"	KDK	"	"	U
Ethylbenzene	376	50.0	"	"	"	KDK	"	"	
Xylenes, total	3260	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"	"	"	

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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW09

10/3/2019 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910069-09 (Water)

BTEX by EPA 8260D

Benzene	27.7	1.00	ug/L	1	B9J0405	KDK	10/04/2019	10/05/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	78.1	1.00	"	"	"	KDK	"	"	
Xylenes, total	249	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

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

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

MW10

10/3/2019 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910069-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J0405	KDK	10/04/2019	10/05/2019	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	115 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

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 Arvada CO 80003

Brian Sulzberger
 Project Number: 014218069/WO #89538280
 Project: KMG - PC Gas Unit #1-26

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 B9J0405 - EPA 5030B (Water)

Blank (B9J0405-BLK1)

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

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		91.7	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.4	70-130			

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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 B9J0405 - EPA 5030B (Water)

LCS (B9J0405-BS1)

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

Benzene	43.3	1.00	ug/L	50.0		86.7	70-130			
Toluene	42.9	1.00	"	50.0		85.8	70-130			
Ethylbenzene	44.9	1.00	"	50.0		89.8	70-130			
m,p-Xylene	90.3	2.00	"	100		90.3	70-130			
o-Xylene	45.9	1.00	"	50.0		91.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	52		"	62.5		83.0	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	70-130			

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 Project: KMG - PC Gas Unit #1-26

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 B9J0405 - EPA 5030B (Water)

Matrix Spike (B9J0405-MS1)	Source: Y910067-01			Prepared: 10/04/2019 Analyzed: 10/04/2019						
Benzene	41.2	1.00	ug/L	50.0	ND	82.4	70-130			
Toluene	42.2	1.00	"	50.0	ND	84.5	70-130			
Ethylbenzene	42.2	1.00	"	50.0	ND	84.5	70-130			
m,p-Xylene	86.2	2.00	"	100	ND	86.2	70-130			
o-Xylene	44.3	1.00	"	50.0	ND	88.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	51		"	62.5		81.9	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.1	70-130			

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 Project: KMG - PC Gas Unit #1-26

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 B9J0405 - EPA 5030B (Water)

Matrix Spike Dup (B9J0405-MSD1)	Source: Y910067-01			Prepared: 10/04/2019 Analyzed: 10/04/2019						
Benzene	44.9	1.00	ug/L	50.0	ND	89.8	70-130	8.62	20	
Toluene	45.5	1.00	"	50.0	ND	91.1	70-130	7.52	20	
Ethylbenzene	47.6	1.00	"	50.0	ND	95.2	70-130	12.0	20	
m,p-Xylene	94.2	2.00	"	100	ND	94.2	70-130	8.85	20	
o-Xylene	47.8	1.00	"	50.0	ND	95.7	70-130	7.68	20	
Surrogate: 1,2-Dichloroethane-d4	50		"	62.5		80.5	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	70-130			

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Arvada CO 80003

Brian Sulzberger
Project Number: 014218069/WO #89538280
Project: KMG - PC Gas Unit #1-26

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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Jen Pellegrini For Noelle Doyle Mathis, President