

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
JACK BERGER C #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Soil Sample ID	Depth (bgs)	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)	GRO (mg/kg)	ORO (mg/kg)	pH (su)	Specific Conductance (mmhos/cm)
B01 @ 6'	6'	12/11/2015	1.21	0.218	0.392	1.18	620	400	210	8.68	0.202
E01 @ 3'	3'	12/11/2015	<0.050	0.075	<0.050	1.10	130	21.6	330	8.59	0.236
N01 @ 3'	3'	12/11/2015	<0.050	0.087	<0.050	0.788	<25	12.9	<100	9.12 †	0.280
S01 @ 3'	3'	12/11/2015	<0.002	<0.002	<0.002	<0.002	<25	0.211	<100	8.86	0.0481
W01 @ 3'	3'	12/11/2015	0.009	0.034	0.009	0.304	<25	2.90	<100	8.68	0.236
B02 @ 8.5'	8.5'	12/17/2015	0.146	1.77	0.180	0.126	620	88.1	100	8.53	0.221
TB-B01 @ 11'	11'	02/18/2016	2.78	0.078	21.6	12.0	2300	1700	<100	8.10	0.112
TB-E01 @ 7'	7'	02/18/2016	0.142	<0.050	3.12	0.807	1900	256	170	8.37	0.0903
TB-N01 @ 7'	7'	02/18/2016	<0.050	<0.050	<0.050	<0.050	52	76.3	<100	7.98	0.329
TB-S01 @ 7'	7'	02/18/2016	0.005	<0.002	<0.002	0.011	<25	1.33	<100	7.80	0.282
TB-W01 @ 7'	7'	02/18/2016	<0.050	<0.050	0.074	0.382	1000	222	<100	8.08	0.185
SB01 @ 8'	8'	02/25/2016	<0.002	<0.002	<0.002	<0.002	<25	<0.200	<100	8.40	0.153
SB02 @ 8'	8'	02/25/2016	<0.002	<0.002	<0.002	0.005	<25	<0.200	<100	8.60	0.109
SB03 @ 8'	8'	02/25/2016	<0.050	<0.050	0.052	<0.050	1300	262	210	8.26	0.122
SB04 @ 8'	8'	02/25/2016	0.096	<0.050	<0.050	<0.050	350	363	<100	8.18	0.131
SB05 @ 6'	6'	02/25/2016	<0.050	<0.050	<0.050	<0.050	<25	67.3	<100	8.32	0.146
SB06 @ 6'	6'	03/01/2016	0.125	<0.050	<0.050	<0.050	<25	19.4	<100	8.71	0.137
SB07 @ 6'	6'	03/01/2016	<0.050	<0.050	<0.050	<0.050	<25	<5.00	<100	8.06	0.201
SB08 @ 8'	8'	03/01/2016	0.897	0.075	1.97	<0.050	150	375	<100	8.22	0.118
SB09 @ 8'	8'	03/01/2016	2.21	<0.050	0.353	<0.050	500	1000	150	8.36	0.117
SB11 @ 6'	6'	03/01/2016	<0.002	<0.002	<0.002	<0.002	<25	<0.200	<100	7.75	0.120
SB12@6'	6'	04/27/2018	<0.002	<0.002	<0.002	<0.002	<25.0	0.279	<100	NA	NA



TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL RESULTS
JACK BERGER C #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Soil Sample ID	Depth (bgs)	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)	GRO (mg/kg)	ORO (mg/kg)	pH (su)	Specific Conductance (mmhos/cm)
SB13@8'	8'	04/27/2018	0.062	<0.050	<0.050	<0.050	661	1600	198	NA	NA
SB14@10.5'	10.5'	04/27/2018	<0.050	<0.050	<0.050	<0.050	2140	53.0	740	NA	NA
SB14@6'	6'	04/27/2018	0.002	<0.002	0.002	<0.002	1220	16.2	425	NA	NA
SB15@8'	8'	04/27/2018	<0.002	<0.002	<0.002	<0.002	377	7.85	191	NA	NA
COGCC Allowable Levels			0.17	85	100	175	500*	500*	500*	6-9	4

Notes: bgs - below ground surface
COGCC - Colorado Oil and Gas Conservation Commission
DRO - diesel range organics
GRO - gasoline range organics
mg/kg - milligrams per kilogram
mmhos/cm - millimhos per centimeter

NA - not analyzed/not available
ORO - oil range organics
su - standard units
† - Sample was collected at a depth greater than 3 feet bgs
* - Standard applies to combined DRO-GRO-ORO
< - less than laboratory reporting limit
Bold indicates result exceeds allowable level



TABLE 2
GROUNDWATER ANALYTICAL AND FIELD RESULTS
BERGER JACK C #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
GW01	12/18/2015	1990	55.0	20.3	25.5	9	NA
SB01GW	2/26/2016	89.9	<4.0	462	1700	12.00	NA
SB02GW	2/26/2016	<4.0	<4.0	<4.0	<4.0	10.00	NA
SB03GW	2/26/2016	3850	<4.0	178	<4.0	10.00	NA
SB04GW	2/26/2016	259	<4.0	10.2	<4.0	10.00	NA
SB05GW	2/26/2016	88.0	<4.0	4.3	<4.0	8.00	NA
SB06GW	3/2/2016	2980	<4.0	<4.0	<4.0	8.00	NA
SB07GW	3/2/2016	32.9	<4.0	5.7	<4.0	8.00	NA
SB08GW	3/2/2016	2900	<4.0	38.4	<4.0	10.00	NA
SB09GW	3/2/2016	860	<4.0	33.3	<4.0	10.00	NA
SB11GW	3/2/2016	7.8	<4.0	<4.0	<4.0	8.00	NA
MW01	5/4/2018	121	<4.00	4.56	<4.00	12.28	88.11
	8/23/2018	489	<4.00	<4.00	<4.00	6.92	93.47
	11/29/2018	371	<4.00	4.12	<4.00	9.49	90.90
MW02	5/4/2018	<1.00	<1.00	<1.00	<1.00	12.76	87.71
	8/23/2018	<1.00	<1.00	<1.00	<1.00	7.30	93.17
	11/29/2018	<1.00	<1.00	<1.00	<1.00	10.04	90.43
MW03	5/4/2018	<1.00	<1.00	<1.00	<1.00	12.24	87.77
	8/23/2018	<1.00	<1.00	<1.00	<1.00	6.50	93.51
	11/29/2018	<1.00	<1.00	<1.00	<1.00	9.50	90.51
MW04	5/4/2018	53.3	<1.00	<1.00	<1.00	11.72	88.25
	8/23/2018	<1.00	<1.00	<1.00	<1.00	6.06	93.91
	11/29/2018	<1.00	<1.00	<1.00	<1.00	8.88	91.09



TABLE 2
GROUNDWATER ANALYTICAL AND FIELD RESULTS
BERGER JACK C #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
MW05	5/4/2018	1,390	<10.0	<10.0	<10.0	13.15	88.46
	8/23/2018	1,020	<10.0	<10.0	<10.0	8.17	93.44
	11/29/2018	122	<1.00	7.10	<1.00	10.30	91.31
MW06	5/4/2018	961	<1.00	3.40	<1.00	12.25	88.40
	8/23/2018	<1.00	<1.00	<1.00	<1.00	6.80	93.85
	11/29/2018	<1.00	<1.00	<1.00	<1.00	9.22	91.43
MW07	5/4/2018	12.2	<1.00	<1.00	<1.00	11.71	88.59
	8/23/2018	34.0	<1.00	5.89	<1.00	6.43	93.87
	11/29/2018	<1.00	<1.00	<1.00	<1.00	8.78	91.52
MW08	5/4/2018	92.2	<1.00	1.54	<1.00	12.71	88.79
	8/23/2018	29.4	<1.00	6.61	<1.00	7.90	93.60
	11/29/2018	9.38	<1.00	7.85	<1.00	9.82	91.68
COGCC Allowable Levels		5	1000	700	1400		

Notes: COGCC - Colorado Oil and Gas Conservation Commission

Elev. - elevation

ft bgs - feet below ground surface

GW - groundwater

NA - not analyzed/not available

NM - not measured

µg/L - micrograms per liter

< - less than laboratory reporting limit

Bold indicates result exceeds allowable level

Excavation groundwater depth is approximate





May 09, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Jack Berger C #1

Project Number - 014215255

Attached are your analytical results for KMG - Jack Berger C #1 received by Origins Laboratory, Inc. April 27, 2018. This project is associated with Origins project number Y804446-01.

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: 014215255
Project: KMG - Jack Berger C #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB15@8'	Y804446-01	Soil	April 27, 2018 11:30	04/27/2018 15:50
SB12@6'	Y804446-02	Soil	April 27, 2018 12:00	04/27/2018 15:50
SB13@8'	Y804446-03	Soil	April 27, 2018 12:30	04/27/2018 15:50
SB14@6'	Y804446-04	Soil	April 27, 2018 13:00	04/27/2018 15:50

Per the email from David on 05/04/18, sample ID SB11@8' has been changed to SB15@8'.

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255
 Project: KMG - Jack Berger C #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y60446

Client: LTE

Client Project ID: KMG - Jack Berger C #1

Checklist Completed by: JG

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

Date/time completed: 4/30/2018

Airbill #: N/A

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

Cooler Number/Temperature: 1, 18.4 °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>sampled same day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) JG

Date/Time Reviewed 4/30/18

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255
 Project: KMG - Jack Berger C #1

SB15@8'
4/27/2018 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804446-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	377	25.0	mg/kg	1	B8E0103	05/01/2018	05/01/2018	
Residual Range Organics (C28-C40)	191	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 83.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	7.85	0.200	mg/kg	1	B8E0102	05/01/2018	05/01/2018	
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.9 % 70-130 " " "
 Surrogate: Toluene-d8 95.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 152 % 70-130 " " " S-04

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255
 Project: KMG - Jack Berger C #1

SB12@6'

4/27/2018 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804446-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B8E0103	05/01/2018	05/01/2018	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 77.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	0.279	0.200	mg/kg	1	B8E0102	05/01/2018	05/02/2018	
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 91.9 % 70-130 " " "
 Surrogate: Toluene-d8 97.5 % 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: 014215255
 Project: KMG - Jack Berger C #1

SB13@8'

4/27/2018 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804446-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	661	25.0	mg/kg	1	B8E0103	05/01/2018	05/01/2018	
Residual Range Organics (C28-C40)	198	100	"	"	"	"	"	

Surrogate: o-Terphenyl 86.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	1600	50.0	mg/kg	250	B8E0102	05/01/2018	05/03/2018	
Benzene	0.062	0.050	"	25	"	"	05/02/2018	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "

Surrogate: Toluene-d8 84.6 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " 05/03/2018

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

Brian Sulzberger
 Project Number: 014215255
 Project: KMG - Jack Berger C #1

SB14@6'
4/27/2018 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804446-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	1220	25.0	mg/kg	1	B8E0103	05/01/2018	05/01/2018	
Residual Range Organics (C28-C40)	425	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 86.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	16.2	0.200	mg/kg	1	B8E0102	05/01/2018	05/01/2018	
Benzene	0.002	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	0.002	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.0 % 70-130 " " "
 Surrogate: Toluene-d8 88.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 122 % 70-130 " " "

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LT Environmental, Inc.
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 014215255
 Project: KMG - Jack Berger C #1

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 B8E0102 - EPA 5030 (soil)

Blank (B8E0102-BLK1)

Prepared: 05/01/2018 Analyzed: 05/01/2018

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	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: 014215255
 Project: KMG - Jack Berger C #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8E0102 - EPA 5030 (soil)										
Blank (B8E0102-BLK2)										
					Prepared: 05/01/2018 Analyzed: 05/01/2018					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.0	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	70-130			

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 Arvada CO 80003

Brian Sulzberger
 Project Number: 014215255
 Project: KMG - Jack Berger C #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8E0102 - EPA 5030 (soil)										
Blank (B8E0102-BLK3)										
					Prepared: 05/01/2018 Analyzed: 05/01/2018					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	76		ug/kg	62.5		122	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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LT Environmental, Inc.
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 Project Number: 014215255
 Project: KMG - Jack Berger C #1

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 B8E0102 - EPA 5030 (soil)

LCS (B8E0102-BS1)

Prepared: 05/01/2018 Analyzed: 05/01/2018

Benzene	0.101	0.002	mg/kg	0.100		101	77.1-124			
Toluene	0.094	0.002	"	0.100		94.0	74.5-128			
Ethylbenzene	0.098	0.002	"	0.100		98.2	66.4-127			
m,p-Xylene	0.198	0.004	"	0.200		98.9	76.6-124			
o-Xylene	0.097	0.002	"	0.100		97.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.5	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	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: 014215255
 Project: KMG - Jack Berger C #1

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 B8E0102 - EPA 5030 (soil)

LCS (B8E0102-BS2)

Prepared: 05/01/2018 Analyzed: 05/01/2018

Benzene	0.096	0.002	mg/kg	0.100		96.2	77.1-124			
Toluene	0.095	0.002	"	0.100		95.1	74.5-128			
Ethylbenzene	0.099	0.002	"	0.100		98.9	66.4-127			
m,p-Xylene	0.186	0.004	"	0.200		92.9	76.6-124			
o-Xylene	0.101	0.002	"	0.100		101	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.2	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	70-130			

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LT Environmental, Inc.
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Brian Sulzberger
 Project Number: 014215255
 Project: KMG - Jack Berger C #1

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 B8E0102 - EPA 5030 (soil)

LCS (B8E0102-BS3)

Prepared: 05/01/2018 Analyzed: 05/01/2018

Benzene	0.093	0.002	mg/kg	0.100		92.6	77.1-124			
Toluene	0.094	0.002	"	0.100		93.6	74.5-128			
Ethylbenzene	0.090	0.002	"	0.100		89.9	66.4-127			
m,p-Xylene	0.167	0.004	"	0.200		83.6	76.6-124			
o-Xylene	0.086	0.002	"	0.100		85.8	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	76		ug/kg	62.5		122	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.6	70-130			

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LT Environmental, Inc.
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 014215255
 Project: KMG - Jack Berger C #1

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 B8E0102 - EPA 5030 (soil)

Matrix Spike (B8E0102-MS1)	Source: Y804446-01			Prepared: 05/01/2018 Analyzed: 05/01/2018						
Benzene	0.093	0.002	mg/kg	0.100	ND	92.7	71.8-126			
Toluene	0.087	0.002	"	0.100	ND	86.8	65.1-130			
Ethylbenzene	0.083	0.002	"	0.100	ND	82.7	62.2-130			
m,p-Xylene	0.157	0.004	"	0.200	ND	78.7	46.5-137			
o-Xylene	0.087	0.002	"	0.100	ND	86.7	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	88		"	62.5		140	70-130			S-04

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

Brian Sulzberger
 Project Number: 014215255
 Project: KMG - Jack Berger C #1

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 B8E0102 - EPA 5030 (soil)

Matrix Spike (B8E0102-MS2)	Source: Y805011-08			Prepared: 05/01/2018 Analyzed: 05/01/2018						
Benzene	2.20	0.050	mg/kg	2.50	ND	87.8	71.8-126			
Toluene	2.20	0.050	"	2.50	ND	88.1	65.1-130			
Ethylbenzene	2.29	0.050	"	2.50	ND	91.5	62.2-130			
m,p-Xylene	4.34	0.100	"	5.00	ND	86.7	46.5-137			
o-Xylene	2.23	0.050	"	2.50	ND	89.2	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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

Brian Sulzberger
 Project Number: 014215255
 Project: KMG - Jack Berger C #1

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 B8E0102 - EPA 5030 (soil)

Matrix Spike (B8E0102-MS3)	Source: Y805011-09			Prepared: 05/01/2018 Analyzed: 05/01/2018						
Benzene	2.43	0.050	mg/kg	2.50	ND	97.2	71.8-126			
Toluene	2.43	0.050	"	2.50	ND	97.3	65.1-130			
Ethylbenzene	2.58	0.050	"	2.50	ND	103	62.2-130			
m,p-Xylene	4.84	0.100	"	5.00	ND	96.8	46.5-137			
o-Xylene	2.49	0.050	"	2.50	ND	99.6	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		93.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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

Brian Sulzberger
 Project Number: 014215255
 Project: KMG - Jack Berger C #1

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 B8E0102 - EPA 5030 (soil)

Matrix Spike Dup (B8E0102-MSD1)	Source: Y804446-01			Prepared: 05/01/2018 Analyzed: 05/01/2018						
Benzene	0.088	0.002	mg/kg	0.100	ND	88.4	71.8-126	4.77	11.3	
Toluene	0.081	0.002	"	0.100	ND	81.4	65.1-130	6.39	15.4	
Ethylbenzene	0.072	0.002	"	0.100	ND	72.0	62.2-130	13.8	19.6	
m,p-Xylene	0.140	0.004	"	0.200	ND	70.1	46.5-137	11.5	19.2	
o-Xylene	0.079	0.002	"	0.100	ND	78.6	54.2-134	9.80	17.9	
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		95.6	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	96		"	62.5		154	70-130			S-04

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

Brian Sulzberger
 Project Number: 014215255
 Project: KMG - Jack Berger C #1

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 B8E0102 - EPA 5030 (soil)

Matrix Spike Dup (B8E0102-MSD2)	Source: Y805011-08			Prepared: 05/01/2018 Analyzed: 05/01/2018						
Benzene	2.13	0.050	mg/kg	2.50	ND	85.1	71.8-126	3.17	11.3	
Toluene	2.12	0.050	"	2.50	ND	84.8	65.1-130	3.91	15.4	
Ethylbenzene	2.25	0.050	"	2.50	ND	90.1	62.2-130	1.52	19.6	
m,p-Xylene	4.22	0.100	"	5.00	ND	84.4	46.5-137	2.66	19.2	
o-Xylene	2.18	0.050	"	2.50	ND	87.3	54.2-134	2.08	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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LT Environmental, Inc.
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 014215255
 Project: KMG - Jack Berger C #1

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 B8E0102 - EPA 5030 (soil)

Matrix Spike Dup (B8E0102-MSD3)	Source: Y805011-09			Prepared: 05/01/2018 Analyzed: 05/01/2018						
Benzene	2.37	0.050	mg/kg	2.50	ND	94.9	71.8-126	2.42	11.3	
Toluene	2.35	0.050	"	2.50	ND	94.0	65.1-130	3.43	15.4	
Ethylbenzene	2.54	0.050	"	2.50	ND	102	62.2-130	1.60	19.6	
m,p-Xylene	4.73	0.100	"	5.00	ND	94.5	46.5-137	2.37	19.2	
o-Xylene	2.44	0.050	"	2.50	ND	97.6	54.2-134	2.05	17.9	
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		92.3	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

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

Brian Sulzberger
 Project Number: 014215255
 Project: KMG - Jack Berger C #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8E0103 - EPA 3580

Blank (B8E0103-BLK1)

Prepared: 05/01/2018 Analyzed: 05/01/2018

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

Blank (B8E0103-BLK2)

Prepared: 05/01/2018 Analyzed: 05/01/2018

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		91.5	59-131			

Blank (B8E0103-BLK3)

Prepared: 05/01/2018 Analyzed: 05/02/2018

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

LCS (B8E0103-BS1)

Prepared: 05/01/2018 Analyzed: 05/01/2018

Diesel (C10-C28)	1050	50.0	mg/kg	1000		105	64-121			
Residual Range Organics (C28-C40)	942	200	"	1000		94.2	58-124			
Surrogate: o-Terphenyl	53		"	50.0		106	59-131			

LCS (B8E0103-BS2)

Prepared: 05/01/2018 Analyzed: 05/01/2018

Diesel (C10-C28)	999	50.0	mg/kg	1000		99.9	64-121			
Residual Range Organics (C28-C40)	900	200	"	1000		90.0	58-124			

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

Brian Sulzberger
 Project Number: 014215255
 Project: KMG - Jack Berger C #1

Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8E0103 - EPA 3580										
LCS (B8E0103-BS2)					Prepared: 05/01/2018 Analyzed: 05/01/2018					
Surrogate: o-Terphenyl	57		mg/kg	50.0		113	59-131			
LCS (B8E0103-BS3)					Prepared: 05/01/2018 Analyzed: 05/02/2018					
Diesel (C10-C28)	1130	50.0	mg/kg	1000		113	64-121			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	58-124			
Surrogate: o-Terphenyl	60		"	50.0		120	59-131			
Matrix Spike (B8E0103-MS1)		Source: Y804446-01			Prepared: 05/01/2018 Analyzed: 05/01/2018					
Diesel (C10-C28)	1210	50.0	mg/kg	1000	377	83.1	53-125			
Residual Range Organics (C28-C40)	946	200	"	1000	191	75.5	47-133			
Surrogate: o-Terphenyl	55		"	50.0		109	59-131			
Matrix Spike (B8E0103-MS2)		Source: Y805011-01			Prepared: 05/01/2018 Analyzed: 05/01/2018					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	53-125			
Residual Range Organics (C28-C40)	928	200	"	1000	5.83	92.2	47-133			
Surrogate: o-Terphenyl	54		"	50.0		108	59-131			
Matrix Spike (B8E0103-MS3)		Source: Y805011-09			Prepared: 05/01/2018 Analyzed: 05/02/2018					
Diesel (C10-C28)	990	50.0	mg/kg	1000	ND	99.0	53-125			
Residual Range Organics (C28-C40)	876	200	"	1000	5.66	87.0	47-133			
Surrogate: o-Terphenyl	56		"	50.0		112	59-131			
Matrix Spike Dup (B8E0103-MSD1)		Source: Y804446-01			Prepared: 05/01/2018 Analyzed: 05/01/2018					
Diesel (C10-C28)	1230	50.0	mg/kg	1000	377	85.8	53-125	3.10	20	
Residual Range Organics (C28-C40)	965	200	"	1000	191	77.3	47-133	2.44	20	
Surrogate: o-Terphenyl	55		"	50.0		111	59-131			
Matrix Spike Dup (B8E0103-MSD2)		Source: Y805011-01			Prepared: 05/01/2018 Analyzed: 05/01/2018					

Origins Laboratory, Inc.



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LT Environmental, Inc.
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 014215255
 Project: KMG - Jack Berger C #1

Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8E0103 - EPA 3580										
Matrix Spike Dup (B8E0103-MSD2)		Source: Y805011-01			Prepared: 05/01/2018 Analyzed: 05/01/2018					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	ND	109	53-125	6.02	20	
Residual Range Organics (C28-C40)	1000	200	"	1000	5.83	99.8	47-133	7.95	20	
Surrogate: o-Terphenyl	61		"	50.0		123	59-131			
Matrix Spike Dup (B8E0103-MSD3)		Source: Y805011-09			Prepared: 05/01/2018 Analyzed: 05/02/2018					
Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	53-125	1.05	20	
Residual Range Organics (C28-C40)	885	200	"	1000	5.66	88.0	47-133	1.06	20	
Surrogate: o-Terphenyl	56		"	50.0		113	59-131			

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

Brian Sulzberger
Project Number: 014215255
Project: KMG - Jack Berger C #1

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

May 09, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Berger Jack C GU #1

Project Number - WO#88926630

Attached are your analytical results for KMG - Berger Jack C GU #1 received by Origins Laboratory, Inc. May 04, 2018. This project is associated with Origins project number Y805091-01.

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: WO#88926630
Project: KMG - Berger Jack C GU #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y805091-01	Water	May 4, 2018 10:00	05/04/2018 15:55
MW02	Y805091-02	Water	May 4, 2018 10:05	05/04/2018 15:55
MW03	Y805091-03	Water	May 4, 2018 10:10	05/04/2018 15:55
MW04	Y805091-04	Water	May 4, 2018 10:15	05/04/2018 15:55
MW05	Y805091-05	Water	May 4, 2018 10:20	05/04/2018 15:55
MW06	Y805091-06	Water	May 4, 2018 10:25	05/04/2018 15:55
MW07	Y805091-07	Water	May 4, 2018 10:30	05/04/2018 15:55
MW08	Y805091-08	Water	May 4, 2018 10:35	05/04/2018 15:55

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: WO#88926630
 Project: KMG - Berger Jack C GU #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y405091 Client: LTE
 Client Project ID: KMG - Berger Jack C GU #1
 Checklist Completed by: JG Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 5/7/2018 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)
 Cooler Number/Temperature: 1, 22.6 °C _____ °C _____ °C _____ °C
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		Sampled Same Day
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽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 HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) AND Date/Time Reviewed 5/8/18

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: WO#88926630
 Project: KMG - Berger Jack C GU #1

MW01
5/4/2018 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805091-01 (Water)

BTEX by EPA 8260C

Benzene	121	4.00	ug/L	4	B8E0704	05/07/2018	05/07/2018	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	4.56	4.00	"	"	"	"	"	
Xylenes, total	ND	4.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.3 %	84-121			"	"	"	
Surrogate: Toluene-d8	104 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.5 %	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: WO#88926630
 Project: KMG - Berger Jack C GU #1

MW02
5/4/2018 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805091-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8E0704	05/07/2018	05/07/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	98.9 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %	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: WO#88926630
 Project: KMG - Berger Jack C GU #1

MW03
5/4/2018 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805091-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8E0704	05/07/2018	05/07/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.1 %	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: WO#88926630
 Project: KMG - Berger Jack C GU #1

MW04
5/4/2018 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805091-04 (Water)

BTEX by EPA 8260C

Benzene	53.3	1.00	ug/L	1	B8E0704	05/07/2018	05/07/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.8 %	84-121			"	"	"	
Surrogate: Toluene-d8	113 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.2 %	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: WO#88926630
Project: KMG - Berger Jack C GU #1

MW05
5/4/2018 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805091-05 (Water)

BTEX by EPA 8260C

Benzene	1390	10.0	ug/L	10	B8E0704	05/07/2018	05/07/2018	
Toluene	ND	10.0	"	"	"	"	"	U
Ethylbenzene	ND	10.0	"	"	"	"	"	U
Xylenes, total	ND	10.0	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.8 %	84-121			"	"	"	
Surrogate: Toluene-d8	104 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.2 %	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: WO#88926630
 Project: KMG - Berger Jack C GU #1

MW06
5/4/2018 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805091-06 (Water)

BTEX by EPA 8260C

Benzene	961	20.0	ug/L	20	B8E0704	05/07/2018	05/08/2018	
Toluene	ND	1.00	"	1	"	"	05/07/2018	U
Ethylbenzene	3.40	1.00	"	"	"	"	"	
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	93.4 %	84-121			"	"	05/08/2018	
Surrogate: Toluene-d8	104 %	85-115			"	"	05/07/2018	
Surrogate: 4-Bromofluorobenzene	94.9 %	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: WO#88926630
 Project: KMG - Berger Jack C GU #1

MW07
5/4/2018 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805091-07 (Water)

BTEX by EPA 8260C

Benzene	12.2	1.00	ug/L	1	B8E0704	05/07/2018	05/09/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	05/07/2018	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.2 %	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: WO#88926630
 Project: KMG - Berger Jack C GU #1

MW08
5/4/2018 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805091-08 (Water)

BTEX by EPA 8260C

Benzene	92.2	1.00	ug/L	1	B8E0704	05/07/2018	05/09/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	1.54	1.00	"	"	"	"	"	
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.8 %	84-121			"	"	05/07/2018	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3 %	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: WO#88926630
 Project: KMG - Berger Jack C GU #1

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 B8E0704 - EPA 5030B (Water)

Blank (B8E0704-BLK1)

Prepared: 05/07/2018 Analyzed: 05/07/2018

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5	99.5		84-121			
Surrogate: Toluene-d8	63		"	62.5	101		85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	97.7		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: WO#88926630
 Project: KMG - Berger Jack C GU #1

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 B8E0704 - EPA 5030B (Water)

LCS (B8E0704-BS1)

Prepared: 05/07/2018 Analyzed: 05/07/2018

Benzene	51.8	1.00	ug/L	50.0		104	73.3-129			
Toluene	48.6	1.00	"	50.0		97.2	76.2-123			
Ethylbenzene	49.5	1.00	"	50.0		99.0	73.6-130			
m,p-Xylene	99.5	2.00	"	100		99.5	76.1-126			
o-Xylene	51.0	1.00	"	50.0		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.0	84-121			
Surrogate: Toluene-d8	65		"	62.5		104	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	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: WO#88926630
 Project: KMG - Berger Jack C GU #1

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 B8E0704 - EPA 5030B (Water)

Matrix Spike (B8E0704-MS1)	Source: Y805091-02			Prepared: 05/07/2018 Analyzed: 05/07/2018						
Benzene	58.8	1.00	ug/L	50.0	ND	118	74-130			
Toluene	55.0	1.00	"	50.0	ND	110	73-131			
Ethylbenzene	57.6	1.00	"	50.0	ND	115	76-132			
m,p-Xylene	114	2.00	"	100	0.260	114	69-139			
o-Xylene	57.4	1.00	"	50.0	ND	115	74-131			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.9	84-121			
Surrogate: Toluene-d8	64		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.2	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: WO#88926630
 Project: KMG - Berger Jack C GU #1

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 B8E0704 - EPA 5030B (Water)

Matrix Spike Dup (B8E0704-MSD1)	Source: Y805091-02			Prepared: 05/07/2018 Analyzed: 05/07/2018						
Benzene	56.6	1.00	ug/L	50.0	ND	113	74-130	3.69	20	
Toluene	52.4	1.00	"	50.0	ND	105	73-131	4.90	20	
Ethylbenzene	54.3	1.00	"	50.0	ND	109	76-132	5.77	20	
m,p-Xylene	108	2.00	"	100	0.260	108	69-139	5.59	20	
o-Xylene	55.4	1.00	"	50.0	ND	111	74-131	3.51	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.8	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	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: WO#88926630
Project: KMG - Berger Jack C GU #1

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.



August 29, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Berger Jack C GU #1

Project Number - 014215255/WO# 889266

Attached are your analytical results for KMG - Berger Jack C GU #1 received by Origins Laboratory, Inc. August 23, 2018. This project is associated with Origins project number Y808348-01.

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: 014215255/WO# 88926630
Project: KMG - Berger Jack C GU #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y808348-01	Water	August 23, 2018 14:40	08/23/2018 16:30
MW02	Y808348-02	Water	August 23, 2018 14:45	08/23/2018 16:30
MW03	Y808348-03	Water	August 23, 2018 14:50	08/23/2018 16:30
MW04	Y808348-04	Water	August 23, 2018 14:55	08/23/2018 16:30
MW05	Y808348-05	Water	August 23, 2018 15:00	08/23/2018 16:30
MW06	Y808348-06	Water	August 23, 2018 15:05	08/23/2018 16:30
MW07	Y808348-07	Water	August 23, 2018 15:10	08/23/2018 16:30
MW08	Y808348-08	Water	August 23, 2018 15:15	08/23/2018 16:30

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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

ORIGINS
 LABORATORY, INC

7408348

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

Client	Project Manager	Project Number	Sample Date	Sample Time	Container	QTY	Analyses
LT Environmental, Inc.	Brian Sulzberger	014215255/WO# 88926630					
Project: KMG - Berger Jack C GU #1							
Number	Sample Identification	Matrix	Sample Date	Sample Time	Container	QTY	Analyses
01-001	MW01	Water	8/23/18	1440	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
02-001	MW02	Water		1445	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
03-001	MW03	Water		1450	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
04-001	MW04	Water		1455	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
05-001	MW05	Water		1500	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
06-001	MW06	Water		1505	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
07-001	MW07	Water		1510	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
08-001	MW08	Water		1515	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Relinquished By:  Date / Time: 8/23/18

Relinquished By:  Date / Time: 8/23/18 1630

Received By: _____ Date / Time: _____

Temperature on Receipt: 5.9

Turn Around Time: 72-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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1808348

Client: LTE

Client Project ID: KMG - Berger Jack C GU 1

Checklist Completed by: JG

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

Date/time completed: 8/24/2018

Airbill #: N/A

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

Cooler Number/Temperature: 1, 5.9 °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"/>			
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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JG

Date/Time Reviewed 8/27/18

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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW01

8/23/2018 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808348-01 (Water)

BTEX by EPA 8260C

Benzene	489	4.00	ug/L	4	B8H2405	KDK	08/24/2018	08/24/2018	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	92.2 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW02

8/23/2018 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808348-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H2405	KDK	08/24/2018	08/24/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	90.4 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW03

8/23/2018 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808348-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H2405	KDK	08/24/2018	08/24/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	91.4 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW04

8/23/2018 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808348-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H2405	KDK	08/24/2018	08/24/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	92.5 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW05

8/23/2018 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808348-05 (Water)

BTEX by EPA 8260C

Benzene	1020	10.0	ug/L	10	B8H2405	KDK	08/24/2018	08/24/2018	
Toluene	ND	10.0	"	"	"	KDK	"	"	U
Ethylbenzene	ND	10.0	"	"	"	KDK	"	"	U
Xylenes, total	ND	10.0	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	92.9 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW06

8/23/2018 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808348-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H2405	KDK	08/24/2018	08/27/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	84-121			"	"		08/24/2018	
Surrogate: Toluene-d8	92.5 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW07

8/23/2018 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808348-07 (Water)

BTEX by EPA 8260C

Benzene	34.0	1.00	ug/L	1	B8H2405	KDK	08/24/2018	08/27/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	5.89	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	108 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW08

8/23/2018 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808348-08 (Water)

BTEX by EPA 8260C

Benzene	29.4	1.00	ug/L	1	B8H2405	KDK	08/24/2018	08/27/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	6.61	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

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 B8H2405 - EPA 5030B (Water)

Blank (B8H2405-BLK1)

Prepared: 08/24/2018 Analyzed: 08/24/2018

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.4	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.7	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

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 B8H2405 - EPA 5030B (Water)

Blank (B8H2405-BLK2)

Prepared: 08/24/2018 Analyzed: 08/24/2018

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.8	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.5	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.6	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

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 B8H2405 - EPA 5030B (Water)

LCS (B8H2405-BS1)

Prepared: 08/24/2018 Analyzed: 08/24/2018

Benzene	44.3	1.00	ug/L	50.0		88.6	73.3-129			
Toluene	47.1	1.00	"	50.0		94.2	76.2-123			
Ethylbenzene	43.8	1.00	"	50.0		87.6	73.6-130			
m,p-Xylene	87.2	2.00	"	100		87.2	76.1-126			
o-Xylene	45.0	1.00	"	50.0		89.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	84-121			
Surrogate: Toluene-d8	67		"	62.5		107	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

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 B8H2405 - EPA 5030B (Water)

LCS (B8H2405-BS2)

Prepared: 08/24/2018 Analyzed: 08/24/2018

Benzene	52.2	1.00	ug/L	50.0		104	73.3-129			
Toluene	52.9	1.00	"	50.0		106	76.2-123			
Ethylbenzene	52.9	1.00	"	50.0		106	73.6-130			
m,p-Xylene	104	2.00	"	100		104	76.1-126			
o-Xylene	51.3	1.00	"	50.0		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.2	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

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 B8H2405 - EPA 5030B (Water)

Matrix Spike (B8H2405-MS1)	Source: Y808346-01			Prepared: 08/24/2018 Analyzed: 08/24/2018						
Benzene	66.9	1.00	ug/L	50.0	2.83	128	74-130			
Toluene	64.8	1.00	"	50.0	ND	130	73-131			
Ethylbenzene	67.2	1.00	"	50.0	0.090	134	76-132			QM-07
m,p-Xylene	132	2.00	"	100	0.210	132	69-139			
o-Xylene	64.3	1.00	"	50.0	0.080	128	74-131			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		105	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.9	85-115			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

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 B8H2405 - EPA 5030B (Water)

Matrix Spike (B8H2405-MS2)	Source: Y808346-08			Prepared: 08/24/2018 Analyzed: 08/24/2018						
Benzene	55.5	1.00	ug/L	50.0	0.240	111	74-130			
Toluene	56.6	1.00	"	50.0	ND	113	73-131			
Ethylbenzene	56.3	1.00	"	50.0	ND	113	76-132			
m,p-Xylene	112	2.00	"	100	ND	112	69-139			
o-Xylene	56.1	1.00	"	50.0	ND	112	74-131			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

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 B8H2405 - EPA 5030B (Water)

Matrix Spike Dup (B8H2405-MSD1)	Source: Y808346-01			Prepared: 08/24/2018 Analyzed: 08/24/2018						
Benzene	58.2	1.00	ug/L	50.0	2.83	111	74-130	13.9	20	
Toluene	57.6	1.00	"	50.0	ND	115	73-131	11.8	20	
Ethylbenzene	58.3	1.00	"	50.0	0.090	116	76-132	14.3	20	
m,p-Xylene	116	2.00	"	100	0.210	115	69-139	13.5	20	
o-Xylene	56.6	1.00	"	50.0	0.080	113	74-131	12.8	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.6	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.9	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

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 B8H2405 - EPA 5030B (Water)

Matrix Spike Dup (B8H2405-MSD2)	Source: Y808346-08			Prepared: 08/24/2018 Analyzed: 08/24/2018						
Benzene	59.0	1.00	ug/L	50.0	0.240	117	74-130	5.99	20	
Toluene	58.7	1.00	"	50.0	ND	117	73-131	3.76	20	
Ethylbenzene	61.6	1.00	"	50.0	ND	123	76-132	9.01	20	
m,p-Xylene	121	2.00	"	100	ND	121	69-139	7.39	20	
o-Xylene	59.6	1.00	"	50.0	ND	119	74-131	5.95	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.8	85-115			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014215255/WO# 88926630
Project: KMG - Berger Jack C GU #1

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.

Jen Pellegrini For Noelle Doyle Mathis, President

December 06, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Berger Jack C GU #1

Project Number - 014215255/WO# 889266

Attached are your analytical results for KMG - Berger Jack C GU #1 received by Origins Laboratory, Inc. November 29, 2018. This project is associated with Origins project number Y811439-01.

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: 014215255/WO# 88926630
Project: KMG - Berger Jack C GU #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y811439-01	Water	November 29, 2018 13:30	11/29/2018 15:15
MW02	Y811439-02	Water	November 29, 2018 13:40	11/29/2018 15:15
MW03	Y811439-03	Water	November 29, 2018 13:50	11/29/2018 15:15
MW04	Y811439-04	Water	November 29, 2018 14:00	11/29/2018 15:15
MW05	Y811439-05	Water	November 29, 2018 14:10	11/29/2018 15:15
MW06	Y811439-06	Water	November 29, 2018 14:20	11/29/2018 15:15
MW07	Y811439-07	Water	November 29, 2018 14:30	11/29/2018 15:15
MW08	Y811439-08	Water	November 29, 2018 14:40	11/29/2018 15:15

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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1



181439

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

Client: LT Environmental, Inc. Project Manager: Brian Sulzberger
 Project: KMG - Berger Jack C GU #1 Project Number: 014215255/WO# 88926630

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
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01-001	MMW01	Water	11/29/18	1330	JS	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
02-001	MMW02	Water		1340		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
03-001	MMW03	Water		1350		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
04-001	MMW04	Water		1400		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
05-001	MMW05	Water		1410		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
06-001	MMW06	Water		1420		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
07-001	MMW07	Water		1430		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
08-001	MMW08	Water		1440		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Relinquished By: [Signature] Date / Time: 11/29/18 1515
 Received By: [Signature] Date / Time: 11/29/18 1515

Temperature on Receipt: 10.0
 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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y01439

Client: LTE
 Client Project ID: KMG - Berger Jack C GU #1

Checklist Completed by: JG

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

Date/time completed: 11/30/2018

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 10.0 °C _____ °C _____ °C _____ °C

Thermometer ID: T003

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 12/3/18

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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW01

11/29/2018 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811439-01 (Water)

BTEX by EPA 8260C

Benzene	371	4.00	ug/L	4	B8L0405	JTD	12/04/2018	12/05/2018	
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	4.12	4.00	"	"	"	JTD	"	"	
Xylenes, total	ND	4.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.8 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	103 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW02

11/29/2018 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811439-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L0405	JTD	12/04/2018	12/05/2018	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	98.4 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW03

11/29/2018 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811439-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L0405	JTD	12/04/2018	12/05/2018	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	98.8 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	103 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW04

11/29/2018 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811439-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L0405	JTD	12/04/2018	12/05/2018	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	98.0 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	103 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW05

11/29/2018 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811439-05 (Water)

BTEX by EPA 8260C

Benzene	122	1.00	ug/L	1	B8L0405	JTD	12/04/2018	12/05/2018	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	7.10	1.00	"	"	"	JTD	"	"	
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.8 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	104 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW06

11/29/2018 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811439-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L0405	JTD	12/04/2018	12/05/2018	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	97.1 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW07

11/29/2018 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811439-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L0405	JTD	12/04/2018	12/05/2018	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	98.1 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	104 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW08

11/29/2018 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811439-08 (Water)

BTEX by EPA 8260C

Benzene	9.38	1.00	ug/L	1	B8L0405	JTD	12/04/2018	12/05/2018	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	7.85	1.00	"	"	"	JTD	"	"	
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.5 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	107 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.4 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

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 B8L0405 - EPA 5030B (Water)

Blank (B8L0405-BLK1)

Prepared: 12/04/2018 Analyzed: 12/05/2018

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5	99.2		84-121			
Surrogate: Toluene-d8	66		"	62.5	106		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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

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 B8L0405 - EPA 5030B (Water)

Blank (B8L0405-BLK2)

Prepared: 12/04/2018 Analyzed: 12/05/2018

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	84-121			
Surrogate: Toluene-d8	65		"	62.5		104	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

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 B8L0405 - EPA 5030B (Water)

LCS (B8L0405-BS1)

Prepared: 12/04/2018 Analyzed: 12/05/2018

Benzene	45.6	1.00	ug/L	50.0		91.2	73.3-129			
Toluene	50.2	1.00	"	50.0		100	76.2-123			
Ethylbenzene	50.8	1.00	"	50.0		102	73.6-130			
m,p-Xylene	102	2.00	"	100		102	76.1-126			
o-Xylene	51.8	1.00	"	50.0		104	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	84-121			
Surrogate: Toluene-d8	66		"	62.5		106	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

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 B8L0405 - EPA 5030B (Water)

LCS (B8L0405-BS2)

Prepared: 12/04/2018 Analyzed: 12/05/2018

Benzene	55.8	1.00	ug/L	50.0		112	73.3-129			
Toluene	54.2	1.00	"	50.0		108	76.2-123			
Ethylbenzene	56.3	1.00	"	50.0		113	73.6-130			
m,p-Xylene	109	2.00	"	100		109	76.1-126			
o-Xylene	55.1	1.00	"	50.0		110	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.3	84-121			
Surrogate: Toluene-d8	59		"	62.5		94.4	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.0	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

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 B8L0405 - EPA 5030B (Water)

Matrix Spike (B8L0405-MS1)	Source: Y811437-01			Prepared: 12/04/2018 Analyzed: 12/05/2018						
Benzene	55.0	1.00	ug/L	50.0	ND	110	74-130			
Toluene	58.2	1.00	"	50.0	ND	116	73-131			
Ethylbenzene	58.7	1.00	"	50.0	ND	117	76-132			
m,p-Xylene	117	2.00	"	100	ND	117	69-139			
o-Xylene	59.6	1.00	"	50.0	ND	119	74-131			
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		110	84-121			
Surrogate: Toluene-d8	65		"	62.5		104	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

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 B8L0405 - EPA 5030B (Water)

Matrix Spike (B8L0405-MS2)	Source: Y811437-02			Prepared: 12/04/2018 Analyzed: 12/05/2018						
Benzene	50.7	1.00	ug/L	50.0	ND	101	74-130			
Toluene	54.1	1.00	"	50.0	ND	108	73-131			
Ethylbenzene	54.0	1.00	"	50.0	ND	108	76-132			
m,p-Xylene	107	2.00	"	100	ND	107	69-139			
o-Xylene	53.3	1.00	"	50.0	ND	107	74-131			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	65		"	62.5		104	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		100	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

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 B8L0405 - EPA 5030B (Water)

Matrix Spike Dup (B8L0405-MSD1)	Source: Y811437-01			Prepared: 12/04/2018 Analyzed: 12/05/2018						
Benzene	56.8	1.00	ug/L	50.0	ND	114	74-130	3.18	20	
Toluene	59.0	1.00	"	50.0	ND	118	73-131	1.35	20	
Ethylbenzene	59.2	1.00	"	50.0	ND	118	76-132	0.967	20	
m,p-Xylene	120	2.00	"	100	ND	120	69-139	2.61	20	
o-Xylene	59.8	1.00	"	50.0	ND	120	74-131	0.402	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

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 B8L0405 - EPA 5030B (Water)

Matrix Spike Dup (B8L0405-MSD2)	Source: Y811437-02			Prepared: 12/04/2018 Analyzed: 12/05/2018						
Benzene	51.6	1.00	ug/L	50.0	ND	103	74-130	1.76	20	
Toluene	54.2	1.00	"	50.0	ND	108	73-131	0.258	20	
Ethylbenzene	53.8	1.00	"	50.0	ND	108	76-132	0.315	20	
m,p-Xylene	108	2.00	"	100	ND	108	69-139	0.886	20	
o-Xylene	54.5	1.00	"	50.0	ND	109	74-131	2.19	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.7	84-121			
Surrogate: Toluene-d8	65		"	62.5		104	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014215255/WO# 88926630
Project: KMG - Berger Jack C GU #1

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.