

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

COGCC Allowable Concentration (Soil) -->				Organics (mg/kg)										
				500			0.17	85	100	175	23	4	(6-9)	12
Sample ID:	Sample Date:	Sample Depth (feet bgs):	Photoionization Detector Reading (ppm):	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C28) High Fraction	TPH-RRO (C28-C40) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total	Naphthalene	EC (<4 mmhos/cm or 2x background)	pH (unit)	SAR
B01@9'	01/24/2020	9'	246.7	7.34	75.4	<100	<0.050	<0.050	<0.050	<0.050	<0.200	0.0703	7.72	6.79
B02@9'	01/24/2020	9'	9.6	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	0.0950	8.64	8.13
N01@7'	01/24/2020	7'	799.5	232	219	<100	<0.050	<0.050	2.38	5.36	1.32	NA	NA	NA
N02@8'	01/24/2020	8'	339.9	7.36	85.5	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA
B03@9'	01/27/2020	9'	433.8	23.6	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	0.103	8.28	6.29
B04@9'	01/27/2020	9'	488.0	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	0.123	8.29	5.90
E01@8'	01/27/2020	8'	916.8	41.3	161	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA
E02@8'	01/27/2020	8'	16.3	29.1	98.9	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA
N03@8'	01/27/2020	8'	1064	133	300	<100	<0.050	<0.050	1.65	<0.050	0.894	NA	NA	NA
S01@7'	01/27/2020	7'	26.5	15.6	121	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA
S02@7'	01/27/2020	7'	3.9	8.31	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA
S03@7'	01/27/2020	7'	24.5	10.6	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA
W01@8'	01/27/2020	8'	1628	1230	648	<100	0.505	<0.498	9.42	172	2.40	NA	NA	NA
W02@6'	01/27/2020	6'	12.5	31.5	56.5	<100	<0.050	<0.050	<0.050	0.307	<0.200	NA	NA	NA
W03@8'	01/30/2020	8'	15.0	385	347	<100	0.057	<0.050	1.37	21.0	0.691	NA	NA	NA
B05@10'	01/31/2020	10'	8.5	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	0.0403	8.42	5.88
N04@7'	01/31/2020	7'	1.7	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA
S04@7'	01/31/2020	7'	7.8	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA



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

COGCC Allowable Concentration (Soil) -->				Organics (mg/kg)										
				500			0.17	85	100	175	23	4	(6-9)	12
Sample ID:	Sample Date:	Sample Depth (feet bgs):	Photoionization Detector Reading (ppm):	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C28) High Fraction	TPH-RRO (C28-C40) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total	Naphthalene	EC (<4 mmhos/cm or 2x background)	pH (unit)	SAR
W04@7'	01/31/2020	7'	253.2	6.11	56.9	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA

Notes: mg/kg - milligrams per kilogram
COGCC - Colorado Oil and Gas Conservation Commission
bgs - below ground surface
ppm - parts per million
TPH - total petroleum hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics

RRO - residual range organics
EC - Specific Conductance
mmhos/cm - millimhos per centimeter
SAR - Sodium Adsorption Ratio
NA - not analyzed
Bold indicates result exceeds allowable level





January 30, 2020

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Sarchet #1

Project Number - 014220013

Attached are your analytical results for KMG - Sarchet #1 received by Origins Laboratory, Inc. January 24, 2020. This project is associated with Origins project number Y001350-01.

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: 014220013
Project: KMG - Sarchet #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@7'	Y001350-01	Soil	January 24, 2020 14:52	01/24/2020 16:30
N02@8'	Y001350-02	Soil	January 24, 2020 14:58	01/24/2020 16:30
B01@9'	Y001350-03	Soil	January 24, 2020 14:39	01/24/2020 16:30
B02@9'	Y001350-04	Soil	January 24, 2020 14:43	01/24/2020 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: 014220013
 Project: KMG - Sarchet #1



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1001350 page 1 of 1

Client: ~~LT Environmental~~ LT Environmental
 Project Manager: B. Sulzberger
 Address: 4600 W 60th Ave
 Project Name: Sarchet #1
 Arvada CO 80003
 Project Number: 014220013
 Telephone Number: 303-433-9788
 Samples Collected By: Jennifer Kinnear
 Email Address: jkinnear@originslab.com

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	GC	IC		PC	
NH4@71	1/24/2010	1452	1	X				X								
NH4@81	1/24/2010	1458	1	X				X								
BOL@91	1/24/2010	1439	2	X				X								
BOL@91	1/24/2010	1443	2	X				X								
BOL@91	1/24/2010	1536	1	X				X								Hold
Depths added per the email from Jeremy on 1/27/10.																
Relinquished By: [Signature]	Date: 1/24/2010	Time: 11:00	Received By: [Signature]	Date: 1-24-20	Time: 1:30	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>										
Relinquished By: [Signature]	Date: 1/24/2010	Time: 11:00	Received By: [Signature]	Date: 1-24-20	Time: 1:30	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>										

Temp Received: 41.9 Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
 Project Number: 014220013
 Project: KMG - Sarchet #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y001350

Client: LTE

Client Project ID: Sarchet #1

Checklist Completed by: JG

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

Date/time completed: 1/24/2020

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.8 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	dit
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 type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<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.

[Signature]
 Reviewed by (Project Manager)

1/24/20
 Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
 Project Number: 014220013
 Project: KMG - Sarchet #1

N01@7'

1/24/2020 2:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y001350-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	219	25.0	mg/kg	1	B0A2409	KDK	01/24/2020	01/24/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 73.7% 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	232	5.00	mg/kg	25	B0A2408	KDK	01/24/2020	01/24/2020	
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	2.38	0.050	"	"	"	KDK	"	"	
Xylenes, total	5.36	0.050	"	"	"	KDK	"	"	
Naphthalene	1.32	0.200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4 107% 70-130 " " "

Surrogate: Toluene-d8 115% 70-130 " " "

Surrogate: 4-Bromofluorobenzene 96.8% 70-130 " " "

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014220013
 Project: KMG - Sarchet #1

N02@8'

1/24/2020 2:58:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001350-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	85.5	25.0	mg/kg	1	B0A2409	KDK	01/24/2020	01/24/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 73.2 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	7.36	5.00	mg/kg	25	B0A2408	KDK	01/24/2020	01/24/2020	
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
 Surrogate: Toluene-d8 97.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.3 % 70-130 " " "

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: 014220013
 Project: KMG - Sarchet #1

B01@9'

1/24/2020 2:39:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001350-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	75.4	25.0	mg/kg	1	B0A2409	KDK	01/24/2020	01/24/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 74.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	7.34	5.00	mg/kg	25	B0A2408	KDK	01/24/2020	01/24/2020	
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
Surrogate: Toluene-d8 98.2 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.3 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	1.05		me/L	1	[none]		01/28/2020	01/30/2020	
Magnesium	0.85		"	"	"		"	"	
Sodium	6.62		"	"	"		"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014220013
 Project: KMG - Sarchet #1

B01@9'

1/24/2020 2:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001350-03 (Soil)

pH in Soil by EPA 9045D

pH	7.72		pH Units	1	B0A2410	KDK	01/24/2020	01/24/2020	
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SAR by 20B Saturated Paste

SAR	6.79			1	[none]		01/28/2020	01/30/2020	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0703	0.00509	mmhos/cm	1	B0A2411	KDK	01/24/2020	01/24/2020	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014220013
 Project: KMG - Sarchet #1

B02@9'

1/24/2020 2:43:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001350-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A2409	KDK	01/24/2020	01/24/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 84.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0A2408	KDK	01/24/2020	01/24/2020	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
 Surrogate: Toluene-d8 97.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.1 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	1.02		me/L	1	[none]		01/28/2020	01/30/2020	
Magnesium	0.87		"	"	"		"	"	
Sodium	7.90		"	"	"		"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014220013
Project: KMG - Sarchet #1

B02@9'

1/24/2020 2:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001350-04 (Soil)

pH in Soil by EPA 9045D

pH	8.64		pH Units	1	B0A2410	KDK	01/24/2020	01/24/2020	
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SAR by 20B Saturated Paste

SAR	8.13			1	[none]		01/28/2020	01/30/2020	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0950	0.00500	mmhos/cm	1	B0A2411	KDK	01/24/2020	01/24/2020	
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Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014220013
 Project: KMG - Sarchet #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0A2408 - EPA 5030 (soil)

Blank (B0A2408-BLK1)

Prepared: 01/24/2020 Analyzed: 01/24/2020

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
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014220013
 Project: KMG - Sarchet #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0A2408 - EPA 5030 (soil)

LCS (B0A2408-BS1)

Prepared: 01/24/2020 Analyzed: 01/24/2020

Benzene	0.096	0.002	mg/kg	0.100		96.2	70-130			
Toluene	0.094	0.002	"	0.100		93.8	70-130			
Ethylbenzene	0.093	0.002	"	0.100		93.3	70-130			
m,p-Xylene	0.190	0.004	"	0.200		95.1	70-130			
o-Xylene	0.096	0.002	"	0.100		96.4	70-130			
Naphthalene	0.109	0.008	"	0.100		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.8	70-130			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: 014220013
 Project: KMG - Sarchet #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0A2408 - EPA 5030 (soil)

Matrix Spike (B0A2408-MS1)	Source: Y001350-01			Prepared: 01/24/2020 Analyzed: 01/24/2020						
Benzene	0.102	0.002	mg/kg	0.100	ND	102	70-130			
Toluene	0.102	0.002	"	0.100	0.048	53.9	70-130			QM-07
Ethylbenzene	0.103	0.002	"	0.100	2.38	NR	70-130			QM-07
m,p-Xylene	0.209	0.004	"	0.200	5.36	NR	70-130			QM-07
o-Xylene	0.102	0.002	"	0.100	0.041	60.7	70-130			QM-07
Naphthalene	0.101	0.008	"	0.100	1.32	NR	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: 014220013
 Project: KMG - Sarchet #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0A2408 - EPA 5030 (soil)

Matrix Spike Dup (B0A2408-MSD1)	Source: Y001350-01			Prepared: 01/24/2020 Analyzed: 01/24/2020						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	70-130	2.30	20	
Toluene	0.102	0.002	"	0.100	0.048	54.4	70-130	0.529	20	QM-07
Ethylbenzene	0.103	0.002	"	0.100	2.38	NR	70-130	0.272	20	QM-07
m,p-Xylene	0.209	0.004	"	0.200	5.36	NR	70-130	0.0191	20	QM-07
o-Xylene	0.103	0.002	"	0.100	0.041	62.3	70-130	1.50	20	QM-07
Naphthalene	0.108	0.008	"	0.100	1.32	NR	70-130	6.72	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.3	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: 014220013
 Project: KMG - Sarchet #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0A2409 - EPA 3580										
Blank (B0A2409-BLK1)										
					Prepared: 01/24/2020 Analyzed: 01/24/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	25.0		84.5	50-150			

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: 014220013
 Project: KMG - Sarchet #1

Extractable Petroleum Hydrocarbons by 8015D - 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 B0A2409 - EPA 3580

LCS (B0A2409-BS1)

Prepared: 01/24/2020 Analyzed: 01/24/2020

Diesel (C10-C28)	1020	50.0	mg/kg	1000		102	70-130			
Residual Range Organics (C28-C40)	1140	200	"	1000		114	70-130			
Surrogate: o-Terphenyl	52		"	50.0		103	50-150			

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: 014220013
 Project: KMG - Sarchet #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0A2409 - EPA 3580										
Matrix Spike (B0A2409-MS1)		Source: Y001350-01			Prepared: 01/24/2020 Analyzed: 01/24/2020					
Diesel (C10-C28)	1100	50.0	mg/kg	1000	219	87.7	70-130			
Residual Range Organics (C28-C40)	884	200	"	1000	ND	88.4	70-130			
Surrogate: o-Terphenyl	42		"	50.0		84.5	50-150			

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: 014220013
 Project: KMG - Sarchet #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0A2409 - EPA 3580										
Matrix Spike Dup (B0A2409-MSD1)					Source: Y001350-01					Prepared: 01/24/2020 Analyzed: 01/24/2020
Diesel (C10-C28)	1060	50.0	mg/kg	1000	219	83.7	70-130	4.64	35	
Residual Range Organics (C28-C40)	866	200	"	1000	ND	86.6	70-130	2.03	35	
Surrogate: o-Terphenyl	39		"	50.0		77.2	50-150			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014220013
Project: KMG - Sarchet #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



February 03, 2020

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Sarchet #1

Project Number - KMG0455/WO #880455

Attached are your analytical results for KMG - Sarchet #1 received by Origins Laboratory, Inc. January 27, 2020. This project is associated with Origins project number Y001375-01.

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: KMG0455/WO #88045598
Project: KMG - Sarchet #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W01@8'	Y001375-01	Soil	January 27, 2020 15:21	01/27/2020 17:25
W02@6'	Y001375-02	Soil	January 27, 2020 15:16	01/27/2020 17:25
N03@8'	Y001375-03	Soil	January 27, 2020 15:10	01/27/2020 17:25
B03@9'	Y001375-04	Soil	January 27, 2020 15:26	01/27/2020 17:25
B04@9'	Y001375-05	Soil	January 27, 2020 16:00	01/27/2020 17:25
S01@7'	Y001375-06	Soil	January 27, 2020 15:32	01/27/2020 17:25
S02@7'	Y001375-07	Soil	January 27, 2020 15:37	01/27/2020 17:25
S03@7'	Y001375-08	Soil	January 27, 2020 15:44	01/27/2020 17:25
E01@8'	Y001375-09	Soil	January 27, 2020 15:50	01/27/2020 17:25
E02@8'	Y001375-10	Soil	January 27, 2020 15:55	01/27/2020 17:25

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

www.originslaboratory.com
 page | of |

7001575

Client: LT Environmental, Inc.
 Address: 4600 W 60th Ave
 Telephone Number: 303-433-9766
 Email Address: km@ltgroup.com

Project Manager: B. Sulzberger
 Project Name: Sarchet #1
 Project Number: 012720013
 Samples Collected By: Heather Hilbert

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Canister #	Other	TPH	PH		FT	
W0108	1/27/08	1521	1	X												
W0206		1516	1	X												
W0308		1510	1	X												
B0309		1526	2	X				X					X	X		
B0409		1450	2	X				X					X	X		
S0107		1532	1	X									X	X		
S0207		1537	1	X									X	X		
S0307		1544	1	X									X	X		
E0108		1550	1	X									X	X		
E0208		1555	1	X									X	X		
Relinquished By:		Date:	Time:	Received By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:						
<i>[Signature]</i>	1/27/2008	1705	1705	<i>[Signature]</i>	1/27/08	1705	<i>[Signature]</i>	1/27/08	1705	Same Day <input checked="" type="checkbox"/>	24 Hr <input type="checkbox"/>	48 Hr <input type="checkbox"/>	72 Hr <input type="checkbox"/>	Standard <input type="checkbox"/>		

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

Temp Received: 3.3 Date Results Needed

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: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1001375 Client: LTE
 Client Project ID: Sarchet #1
 Checklist Completed by: JG Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 1/27/2020 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 3.3 °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"/>			
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)

Date/Time Reviewed 1/27/20

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: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

W01@8'

1/27/2020 3:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y001375-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	648	25.0	mg/kg	1	B0A2712	KDK	01/27/2020	01/27/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	92.7 %	50-150			"	"	"	"	
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GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	1230	50.0	mg/kg	250	B0A2713	ZZZ	01/27/2020	01/27/2020	
Benzene	0.505	0.498	"	"	"	ZZZ	"	"	
Toluene	ND	0.498	"	"	"	ZZZ	"	"	U
Ethylbenzene	9.42	0.498	"	"	"	ZZZ	"	"	
Xylenes, total	172	0.498	"	"	"	ZZZ	"	"	
Naphthalene	2.40	2.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	112 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.9 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

W02@6'

1/27/2020 3:16:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001375-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	56.5	25.0	mg/kg	1	B0A2712	KDK	01/27/2020	01/27/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 73.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	31.5	5.00	mg/kg	25	B0A2713	ZZZ	01/27/2020	01/27/2020	
Benzene	ND	0.050	"	"	"	ZZZ	"	"	U
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.050	"	"	"	ZZZ	"	"	U
Xylenes, total	0.307	0.050	"	"	"	ZZZ	"	"	
Naphthalene	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 93.4 % 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: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

N03@8'

1/27/2020 3:10:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001375-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	300	25.0	mg/kg	1	B0A2712	KDK	01/27/2020	01/27/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 74.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	133	5.00	mg/kg	25	B0A2713	ZZZ	01/27/2020	01/27/2020	
Benzene	ND	0.050	"	"	"	ZZZ	"	"	U
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	1.65	0.050	"	"	"	ZZZ	"	"	
Xylenes, total	ND	0.050	"	"	"	ZZZ	"	"	U
Naphthalene	0.894	0.200	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
 Surrogate: Toluene-d8 116 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 104 % 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: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

B03@9'

1/27/2020 3:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001375-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A2712	KDK	01/27/2020	01/27/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 74.3 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	23.6	5.00	mg/kg	25	B0A2713	ZZZ	01/27/2020	01/27/2020	
Benzene	ND	0.050	"	"	"	ZZZ	"	"	U
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.050	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.050	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.200	"	"	"	ZZZ	"	"	U

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

Metals (Saturated Paste Prep)

Calcium	1.41		me/L	1	[none]		01/29/2020	01/31/2020	
Magnesium	1.00		"	"	"		"	"	
Sodium	6.91		"	"	"		"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

B03@9'

1/27/2020 3:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001375-04 (Soil)

pH in Soil by EPA 9045D

pH	8.28		pH Units	1	B0A2715	DJL	01/27/2020	01/27/2020	
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SAR by 20B Saturated Paste

SAR	6.29			1	[none]		01/29/2020	01/31/2020	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.103	0.00500	mmhos/cm	1	B0A2716	DJL	01/27/2020	01/27/2020	
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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: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

B04@9'

1/27/2020 4:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001375-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A2712	KDK	01/27/2020	01/27/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 77.4 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0A2713	ZZZ	01/27/2020	01/27/2020	U
Benzene	ND	0.050	"	"	"	ZZZ	"	"	U
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.050	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.050	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
 Surrogate: Toluene-d8 103 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.4 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	1.23		me/L	1	[none]		01/29/2020	01/31/2020	
Magnesium	0.92		"	"	"		"	"	
Sodium	6.12		"	"	"		"	"	

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: KMG0455/WO #88045598
Project: KMG - Sarchet #1

B04@9'

1/27/2020 4:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001375-05 (Soil)

pH in Soil by EPA 9045D

pH	8.29		pH Units	1	B0A2715	DJL	01/27/2020	01/27/2020	
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SAR by 20B Saturated Paste

SAR	5.90			1	[none]		01/29/2020	01/31/2020	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.123	0.00500	mmhos/cm	1	B0A2716	DJL	01/27/2020	01/27/2020	
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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: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

S01@7'

1/27/2020 3:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y001375-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	121	25.0	mg/kg	1	B0A2712	KDK	01/27/2020	01/27/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 72.2 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	15.6	5.00	mg/kg	25	B0A2713	ZZZ	01/27/2020	01/27/2020	
Benzene	ND	0.050	"	"	"	ZZZ	"	"	U
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.050	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.050	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "
 Surrogate: Toluene-d8 99.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.1 % 70-130 " " "

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

S02@7'

1/27/2020 3:37:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001375-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A2712	KDK	01/27/2020	01/27/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 73.7 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	8.31	5.00	mg/kg	25	B0A2713	ZZZ	01/27/2020	01/27/2020	
Benzene	ND	0.050	"	"	"	ZZZ	"	"	U
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.050	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.050	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 92.8 % 70-130 " " "

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

S03@7'

1/27/2020 3:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y001375-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A2712	KDK	01/27/2020	01/27/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 72.4 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	10.6	5.00	mg/kg	25	B0A2713	ZZZ	01/27/2020	01/27/2020	
Benzene	ND	0.050	"	"	"	ZZZ	"	"	U
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.050	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.050	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "
 Surrogate: Toluene-d8 98.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.6 % 70-130 " " "

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

E01@8'

1/27/2020 3:50:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y001375-09 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	161	25.0	mg/kg	1	B0A2712	KDK	01/27/2020	01/27/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 72.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	41.3	5.00	mg/kg	25	B0A2713	ZZZ	01/27/2020	01/27/2020	
Benzene	ND	0.050	"	"	"	ZZZ	"	"	U
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.050	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.050	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
 Surrogate: Toluene-d8 109 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

E02@8'

1/27/2020 3:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y001375-10 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	98.9	25.0	mg/kg	1	B0A2712	KDK	01/27/2020	01/28/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 88.7% 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	29.1	5.00	mg/kg	25	B0A2713	ZZZ	01/27/2020	01/27/2020	
Benzene	ND	0.050	"	"	"	ZZZ	"	"	U
Toluene	ND	0.050	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.050	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.050	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.5% 70-130 " " "
 Surrogate: Toluene-d8 103% 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.9% 70-130 " " "

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0A2712 - EPA 3580										
Blank (B0A2712-BLK1)										
					Prepared: 01/27/2020 Analyzed: 01/27/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	25.0		83.2	50-150			

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: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

Extractable Petroleum Hydrocarbons by 8015D - 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 B0A2712 - EPA 3580

LCS (B0A2712-BS1)

Prepared: 01/27/2020 Analyzed: 01/27/2020

Diesel (C10-C28)	978	50.0	mg/kg	1000		97.8	70-130			
Residual Range Organics (C28-C40)	849	200	"	1000		84.9	70-130			
Surrogate: o-Terphenyl	43		"	50.0		85.2	50-150			

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: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

Extractable Petroleum Hydrocarbons by 8015D - 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 B0A2712 - EPA 3580

Matrix Spike (B0A2712-MS1)	Source: Y001374-01			Prepared: 01/27/2020 Analyzed: 01/27/2020						
Diesel (C10-C28)	957	50.0	mg/kg	1000	ND	95.7	70-130			
Residual Range Organics (C28-C40)	857	200	"	1000	ND	85.7	70-130			
Surrogate: o-Terphenyl	35		"	50.0		69.7	50-150			

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: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

Extractable Petroleum Hydrocarbons by 8015D - 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 B0A2712 - EPA 3580

Matrix Spike Dup (B0A2712-MSD1)	Source: Y001374-01			Prepared: 01/27/2020 Analyzed: 01/27/2020						
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130	5.06	35	
Residual Range Organics (C28-C40)	875	200	"	1000	ND	87.5	70-130	2.03	35	
Surrogate: o-Terphenyl	37		"	50.0		73.6	50-150			

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: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

Extractable Petroleum Hydrocarbons by 8015D - 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 B0A2713 - EPA 5030 (soil)

Blank (B0A2713-BLK1)

Prepared: 01/27/2020 Analyzed: 01/27/2020

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
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.6	70-130			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

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

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

Batch B0A2713 - EPA 5030 (soil)

LCS (B0A2713-BS1)

Prepared: 01/27/2020 Analyzed: 01/27/2020

Benzene	0.092	0.002	mg/kg	0.100		91.5	70-130			
Toluene	0.105	0.002	"	0.100		105	70-130			
Ethylbenzene	0.096	0.002	"	0.100		96.2	70-130			
m,p-Xylene	0.217	0.004	"	0.200		108	70-130			
o-Xylene	0.104	0.002	"	0.100		104	70-130			
Naphthalene	0.110	0.008	"	0.100		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	70-130			

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0A2713 - EPA 5030 (soil)

Matrix Spike (B0A2713-MS1)	Source: Y001377-01			Prepared: 01/27/2020 Analyzed: 01/27/2020						
Benzene	0.097	0.002	mg/kg	0.100	ND	97.3	70-130			
Toluene	0.109	0.002	"	0.100	ND	109	70-130			
Ethylbenzene	0.102	0.002	"	0.100	ND	102	70-130			
m,p-Xylene	0.232	0.004	"	0.200	0.006	113	70-130			
o-Xylene	0.107	0.002	"	0.100	ND	107	70-130			
Naphthalene	0.097	0.008	"	0.100	0.008	88.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	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: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

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

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

Batch B0A2713 - EPA 5030 (soil)

Matrix Spike Dup (B0A2713-MSD1)	Source: Y001377-01			Prepared: 01/27/2020 Analyzed: 01/27/2020						
Benzene	0.074	0.002	mg/kg	0.100	ND	73.9	70-130	27.3	20	QR-03
Toluene	0.090	0.002	"	0.100	ND	89.8	70-130	19.3	20	
Ethylbenzene	0.081	0.002	"	0.100	ND	80.8	70-130	23.1	20	QR-03
m,p-Xylene	0.182	0.004	"	0.200	0.006	88.0	70-130	24.0	20	QR-03
o-Xylene	0.087	0.002	"	0.100	ND	86.8	70-130	21.2	20	QR-03
Naphthalene	0.079	0.008	"	0.100	0.008	71.5	70-130	19.4	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.7	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: KMG0455/WO #88045598
Project: KMG - Sarchet #1

Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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.



January 31, 2020

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Sarchet #1

Project Number - KMG0455/WO #880455

Attached are your analytical results for KMG - Sarchet #1 received by Origins Laboratory, Inc. January 30, 2020. This project is associated with Origins project number Y001468-01.

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: KMG0455/WO #88045598
Project: KMG - Sarchet #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W03@8'	Y001468-01	Soil	January 30, 2020 14:00	01/30/2020 15:55

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y0001468

Client: LTE

Client Project ID: Sarchet #1

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 1/30/2020

Airbill #: N/A

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

Cooler Number/Temperature: 1/4.1 °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"/>			
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): [Signature]

Date/Time Reviewed: 1/30/20

Origins Laboratory, Inc.

Jefe Pellegrini

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

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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

W03@8'

1/30/2020 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001468-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	347	25.0	mg/kg	1	B0A3002	TEM	01/30/2020	01/31/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 88.7 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	385	50.0	mg/kg	250	B0A3003	ZZZ	01/30/2020	01/30/2020	
Benzene	0.057	0.050	"	25	"	KDK	"	01/31/2020	
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	1.37	0.498	"	250	"	ZZZ	"	01/30/2020	
Xylenes, total	21.0	0.498	"	"	"	ZZZ	"	"	
Naphthalene	0.691	0.200	"	25	"	KDK	"	01/31/2020	

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " 01/30/2020

Surrogate: Toluene-d8 97.8 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 97.9 % 70-130 " " "

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0A3002 - EPA 3580										
Blank (B0A3002-BLK1)										
					Prepared: 01/30/2020 Analyzed: 01/30/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	16		"	25.0		65.2	50-150			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

Extractable Petroleum Hydrocarbons by 8015D - 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 B0A3002 - EPA 3580

LCS (B0A3002-BS1)

Prepared: 01/30/2020 Analyzed: 01/30/2020

Diesel (C10-C28)	970	50.0	mg/kg	1000		97.0	70-130			
Residual Range Organics (C28-C40)	895	200	"	1000		89.5	70-130			
Surrogate: o-Terphenyl	45		"	50.0		89.6	50-150			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

Extractable Petroleum Hydrocarbons by 8015D - 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 B0A3002 - EPA 3580

Matrix Spike (B0A3002-MS1)	Source: Y001453-01			Prepared: 01/30/2020 Analyzed: 01/30/2020						
Diesel (C10-C28)	983	50.0	mg/kg	1000	ND	98.3	70-130			
Residual Range Organics (C28-C40)	944	200	"	1000	ND	94.4	70-130			
Surrogate: o-Terphenyl	44		"	50.0		87.8	50-150			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

Extractable Petroleum Hydrocarbons by 8015D - 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 B0A3002 - EPA 3580

Matrix Spike Dup (B0A3002-MSD1)	Source: Y001453-01		Prepared: 01/30/2020 Analyzed: 01/30/2020							
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130	8.87	35	
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130	9.63	35	
<i>Surrogate: o-Terphenyl</i>	50		"	50.0		100	50-150			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

Extractable Petroleum Hydrocarbons by 8015D - 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 B0A3003 - EPA 5030 (soil)

Blank (B0A3003-BLK1)

Prepared: 01/30/2020 Analyzed: 01/30/2020

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
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0A3003 - EPA 5030 (soil)

LCS (B0A3003-BS1)

Prepared: 01/30/2020 Analyzed: 01/30/2020

Benzene	0.099	0.002	mg/kg	0.100		98.6	70-130			
Toluene	0.099	0.002	"	0.100		99.2	70-130			
Ethylbenzene	0.098	0.002	"	0.100		97.5	70-130			
m,p-Xylene	0.194	0.004	"	0.200		97.0	70-130			
o-Xylene	0.103	0.002	"	0.100		103	70-130			
Naphthalene	0.118	0.008	"	0.100		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.4	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0A3003 - EPA 5030 (soil)

Matrix Spike (B0A3003-MS1)	Source: Y001454-05			Prepared: 01/30/2020 Analyzed: 01/30/2020						
Benzene	0.131	0.002	mg/kg	0.100	131		70-130			QM-07
Toluene	0.137	0.002	"	0.100	137		70-130			QM-07
Ethylbenzene	0.137	0.002	"	0.100	137		70-130			QM-07
m,p-Xylene	0.268	0.004	"	0.200	134		70-130			QM-07
o-Xylene	0.140	0.002	"	0.100	140		70-130			QM-07
Naphthalene	0.159	0.008	"	0.100	159		70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	96.1		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	105		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	95.8		70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0A3003 - EPA 5030 (soil)

Matrix Spike Dup (B0A3003-MSD1)	Source: Y001454-05			Prepared: 01/30/2020 Analyzed: 01/30/2020						
Benzene	0.116	0.002	mg/kg	0.100	116	70-130	11.8	20		
Toluene	0.113	0.002	"	0.100	113	70-130	19.4	20		
Ethylbenzene	0.118	0.002	"	0.100	118	70-130	15.0	20		
m,p-Xylene	0.230	0.004	"	0.200	115	70-130	15.2	20		
o-Xylene	0.116	0.002	"	0.100	116	70-130	19.1	20		
Naphthalene	0.130	0.008	"	0.100	130	70-130	19.6	20		
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	94.5	70-130				
Surrogate: Toluene-d8	0.12		"	0.125	96.5	70-130				
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102	70-130				

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG0455/WO #88045598
Project: KMG - Sarchet #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



April 07, 2020

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Sarchet #1

Project Number - KMG0455/WO #880455

Attached are your analytical results for KMG - Sarchet #1 received by Origins Laboratory, Inc. January 31, 2020. This project is associated with Origins project number Y001494-01.

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: KMG0455/WO #88045598
Project: KMG - Sarchet #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N04@7'	Y001494-01	Soil	January 31, 2020 14:20	01/31/2020 15:40
S04@7'	Y001494-02	Soil	January 31, 2020 14:09	01/31/2020 15:40
W04@7'	Y001494-03	Soil	January 31, 2020 14:07	01/31/2020 15:40
B05@10'	Y001494-04	Soil	January 31, 2020 14:11	01/31/2020 15:40

The sample ID for sample Y001494-03 was changed from "W03@7'" to "W04@7'" per the email request from Michael Furtaw on 4/7/20.

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

N04@7'

1/31/2020 2:20:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001494-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A3102	TEM	01/31/2020	01/31/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 71.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0A3110	KDK	01/31/2020	01/31/2020	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
 Surrogate: Toluene-d8 97.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.5 % 70-130 " " "

Origins Laboratory, Inc.



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

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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

S04@7'

1/31/2020 2:09:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001494-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A3102	TEM	01/31/2020	01/31/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 73.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0A3110	KDK	01/31/2020	01/31/2020	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
 Surrogate: Toluene-d8 97.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.5 % 70-130 " " "

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

W04@7'

1/31/2020 2:07:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001494-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	56.9	25.0	mg/kg	1	B0A3102	TEM	01/31/2020	01/31/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	73.9 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	6.11	5.00	mg/kg	25	B0A3110	KDK	01/31/2020	01/31/2020	
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	96.5 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	96.0 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

B05@10'

1/31/2020 2:11:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001494-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A3102	TEM	01/31/2020	01/31/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl 73.9 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0A3110	KDK	01/31/2020	01/31/2020	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
 Surrogate: Toluene-d8 97.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.2 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	1.54		me/L	1	[none]		02/03/2020	02/05/2020	
Magnesium	1.32		"	"	"		"	"	
Sodium	7.03		"	"	"		"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

B05@10'

1/31/2020 2:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y001494-04 (Soil)

pH in Soil by EPA 9045D

pH	8.42		pH Units	1	B0A3107	KDK	01/31/2020	01/31/2020	
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SAR by 20B Saturated Paste

SAR	5.88			1	[none]		02/03/2020	02/05/2020	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0403	0.00503	mmhos/cm	1	B0A3108	KDK	01/31/2020	02/03/2020	
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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: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0A3102 - EPA 3580										
Blank (B0A3102-BLK1)										
					Prepared: 01/31/2020 Analyzed: 01/31/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	16		"	25.0		63.5	50-150			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

Extractable Petroleum Hydrocarbons by 8015D - 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 B0A3102 - EPA 3580

LCS (B0A3102-BS1)

Prepared: 01/31/2020 Analyzed: 01/31/2020

Diesel (C10-C28)	863	50.0	mg/kg	1000		86.3	70-130			
Residual Range Organics (C28-C40)	922	200	"	1000		92.2	70-130			
Surrogate: o-Terphenyl	44		"	50.0		89.0	50-150			

Origins Laboratory, Inc.



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

Brian Sulzberger
 Project Number: KMG0455/WO #88045598
 Project: KMG - Sarchet #1

Extractable Petroleum Hydrocarbons by 8015D - 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 B0A3102 - EPA 3580

Matrix Spike (B0A3102-MS1)	Source: Y001480-01			Prepared: 01/31/2020 Analyzed: 01/31/2020						
Diesel (C10-C28)	860	50.0	mg/kg	1000	ND	86.0	70-130			
Residual Range Organics (C28-C40)	907	200	"	1000	ND	90.7	70-130			
Surrogate: o-Terphenyl	44		"	50.0		87.6	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - 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 B0A3102 - EPA 3580

Matrix Spike Dup (B0A3102-MSD1)	Source: Y001480-01		Prepared: 01/31/2020 Analyzed: 01/31/2020							
Diesel (C10-C28)	872	50.0	mg/kg	1000	ND	87.2	70-130	1.32	35	
Residual Range Organics (C28-C40)	919	200	"	1000	ND	91.9	70-130	1.27	35	
Surrogate: o-Terphenyl	43		"	50.0		86.7	50-150			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0A3110 - EPA 5030 (soil)

Blank (B0A3110-BLK1)

Prepared: 01/31/2020 Analyzed: 01/31/2020

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
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	70-130			

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 Project: KMG - Sarchet #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0A3110 - EPA 5030 (soil)

LCS (B0A3110-BS1)

Prepared: 01/31/2020 Analyzed: 01/31/2020

Benzene	0.101	0.002	mg/kg	0.100		101	70-130			
Toluene	0.100	0.002	"	0.100		100	70-130			
Ethylbenzene	0.101	0.002	"	0.100		101	70-130			
m,p-Xylene	0.206	0.004	"	0.200		103	70-130			
o-Xylene	0.103	0.002	"	0.100		103	70-130			
Naphthalene	0.106	0.008	"	0.100		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.3	70-130			

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 Project: KMG - Sarchet #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0A3110 - EPA 5030 (soil)

Matrix Spike (B0A3110-MS1)	Source: Y001493-01			Prepared: 01/31/2020 Analyzed: 01/31/2020						
Benzene	0.101	0.002	mg/kg	0.100	ND	101	70-130			
Toluene	0.100	0.002	"	0.100	ND	100	70-130			
Ethylbenzene	0.100	0.002	"	0.100	ND	100	70-130			
m,p-Xylene	0.205	0.004	"	0.200	ND	103	70-130			
o-Xylene	0.102	0.002	"	0.100	ND	102	70-130			
Naphthalene	0.107	0.008	"	0.100	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.8	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0A3110 - EPA 5030 (soil)

Matrix Spike Dup (B0A3110-MSD1)	Source: Y001493-01			Prepared: 01/31/2020 Analyzed: 01/31/2020						
Benzene	0.099	0.002	mg/kg	0.100	ND	99.3	70-130	1.82	20	
Toluene	0.099	0.002	"	0.100	ND	98.7	70-130	1.77	20	
Ethylbenzene	0.098	0.002	"	0.100	ND	98.1	70-130	2.36	20	
m,p-Xylene	0.200	0.004	"	0.200	ND	100	70-130	2.50	20	
o-Xylene	0.102	0.002	"	0.100	ND	102	70-130	0.470	20	
Naphthalene	0.107	0.008	"	0.100	ND	107	70-130	0.112	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.9	70-130			

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Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini For Noelle Doyle Mathis, President