



June 28, 2024

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Tuttle L 16-7

Project Number - GS-10048

Attached are your analytical results for KMG - Tuttle L 16-7 received by Origins Laboratory, Inc. June 12, 2024. This project is associated with Origins project number Y406366-01.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: GS-10048
Project: KMG - Tuttle L 16-7

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01R2-061224	Y406366-01	Water	June 12, 2024 12:50	06/12/2024 15:05
BH04R-061224	Y406366-02	Water	June 12, 2024 13:13	06/12/2024 15:05
BH08R-061224	Y406366-03	Water	June 12, 2024 13:30	06/12/2024 15:05
BH09R-061224	Y406366-04	Water	June 12, 2024 13:56	06/12/2024 15:05
BH10-061224	Y406366-05	Water	June 12, 2024 12:42	06/12/2024 15:05
BH11R-061224	Y406366-06	Water	June 12, 2024 12:21	06/12/2024 15:05
BH12-061224	Y406366-07	Water	June 12, 2024 13:45	06/12/2024 15:05
BH13-061224	Y406366-08	Water	June 12, 2024 12:59	06/12/2024 15:05
BH14-061224	Y406366-09	Water	June 12, 2024 12:21	06/12/2024 15:05

Origins Laboratory, Inc.



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

Andy Sagen
Project Number: GS-10048
Project: KMG - Tuttle L 16-7

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

Client: GSHT/asman

Address: 6855 W 119th Ave.

Broomfield, CO 80020

Project Manager: Andy Sagen

Project Name: Turtle L 16-7

Project Number: GS-10048

Telephone Number: (720) 939-3631 (Call with any questions)

Email Address: OXY/asman Distribution List

Samples Collected By: GSHT/Kaney, David, Delacruz

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis					Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	BTEXN	1,2,4 TMB	1,3,5 TMB		TDS	Cl
BH012 - 01/12/24	6/12/24	1250	4	✓				✓				✓	✓	✓	✓		1
BH04R - 01/12/24	11	1313	1														2
BH05R - 01/12/24		1330															3
BH09R - 01/12/24		1340															4
BH10 - 01/12/24		1242															5
BH11R - 01/12/24		1221															6
BH12 - 01/12/24		1345															7
BH13 - 01/12/24		1259															8
BH14 - 01/12/24	✓	1221	✓					✓				✓	✓	✓	✓		9
																	10

Relinquished By: [Signature] Date: 6/12/2024 Time: 1505

Received By: [Signature] Date: 6/12/24 Time: 1505

Relinquished By: _____ Date: _____ Time: _____

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☒ 72 Hr ☐

Standard ☒

Date Results Needed: 6

Origins Laboratory, Inc.

Byron

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: GS-10048
Project: KMG - Tuttle L 16-7

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

Sample Receipt Checklist

Origins Work Order: 4400306 Client: Tasman
Client Project ID: Tuttle L 16-7

Checklist Completed by: JD Shipped Via: HO
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 6/13/24 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐
Cooler Number/Temperature: 116 °C 1 °C 1 °C (Describe) °C
Thermometer ID: 1005

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 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 (> ½ 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) JD

Date/Time Reviewed 6/14/24

Origins Laboratory, Inc.

J. Bynon

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: GS-10048
Project: KMG - Tuttle L 16-7

BH01R2-061224

6/12/2024 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406366-01 (Water)

Anions by IC 300.0

Chloride	159	31.2	mg/L	125	B4F1402	DLT	06/14/2024	06/15/2024	
Sulfate	89.1	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F1332	JSM	06/13/2024	06/13/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.6 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1200	5.00	mg/L	1	B4F1343	KRM	06/13/2024	06/18/2024	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: GS-10048
Project: KMG - Tuttle L 16-7

BH04R-061224
6/12/2024 1:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406366-02 (Water)

Anions by IC 300.0

Chloride	143	31.2	mg/L	125	B4F1402	DLT	06/14/2024	06/15/2024	
Sulfate	160	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F1332	JSM	06/13/2024	06/13/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1040	5.00	mg/L	1	B4F1343	KRM	06/13/2024	06/18/2024	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: GS-10048
Project: KMG - Tuttle L 16-7

BH08R-061224
6/12/2024 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406366-03 (Water)

Anions by IC 300.0

Chloride	118	31.2	mg/L	125	B4F1402	DLT	06/14/2024	06/15/2024	
Sulfate	247	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F1332	JSM	06/13/2024	06/13/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	908	5.00	mg/L	1	B4F1343	KRM	06/13/2024	06/18/2024	
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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: GS-10048
Project: KMG - Tuttle L 16-7

BH09R-061224
6/12/2024 1:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406366-04 (Water)

Anions by IC 300.0

Chloride	245	31.2	mg/L	125	B4F1402	DLT	06/14/2024	06/15/2024	
Sulfate	ND	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	22.9	2.00	ug/L	1	B4F1332	JSM	06/13/2024	06/13/2024	
1,3,5-Trimethylbenzene	8.28	2.00	"	"	"	JSM	"	"	
Benzene	145	10.0	"	10	"	JSM	"	06/18/2024	
Ethylbenzene	1.07	1.00	"	1	"	JSM	"	06/13/2024	
Naphthalene	2.34	2.00	"	"	"	JSM	"	"	
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	17.2	1.00	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.1 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	764	5.00	mg/L	1	B4F1343	KRM	06/13/2024	06/18/2024	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: GS-10048
Project: KMG - Tuttle L 16-7

BH10-061224

6/12/2024 12:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406366-05 (Water)

Anions by IC 300.0

Chloride	605	31.2	mg/L	125	B4F1402	DLT	06/14/2024	06/15/2024	
Sulfate	140	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F1332	JSM	06/13/2024	06/13/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.1 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1520	5.00	mg/L	1	B4F1343	KRM	06/13/2024	06/18/2024	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: GS-10048
Project: KMG - Tuttle L 16-7

BH11R-061224
6/12/2024 12:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406366-06 (Water)

Anions by IC 300.0

Chloride	497	31.2	mg/L	125	B4F1402	DLT	06/14/2024	06/15/2024	
Sulfate	2410	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F1332	JSM	06/13/2024	06/13/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.2 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	4950	5.00	mg/L	1	B4F1343	KRM	06/13/2024	06/18/2024	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: GS-10048
Project: KMG - Tuttle L 16-7

BH12-061224

6/12/2024 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406366-07 (Water)

Anions by IC 300.0

Chloride	121	31.2	mg/L	125	B4F1402	DLT	06/14/2024	06/15/2024	
Sulfate	310	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F1332	JSM	06/13/2024	06/13/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.1 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	864	5.00	mg/L	1	B4F1343	KRM	06/13/2024	06/18/2024	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: GS-10048
Project: KMG - Tuttle L 16-7

BH13-061224

6/12/2024 12:59:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406366-08 (Water)

Anions by IC 300.0

Chloride	58.8	31.2	mg/L	125	B4F1402	DLT	06/14/2024	06/15/2024	
Sulfate	114	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F1332	JSM	06/13/2024	06/13/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	12.0	1.00	"	"	"	JSM	"	"	
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.1 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	736	5.00	mg/L	1	B4F1343	KRM	06/13/2024	06/18/2024	
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6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: GS-10048
Project: KMG - Tuttle L 16-7

BH14-061224

6/12/2024 12:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406366-09 (Water)

Anions by IC 300.0

Chloride	1200	31.2	mg/L	125	B4F1402	DLT	06/14/2024	06/15/2024	
Sulfate	255	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F1332	JSM	06/13/2024	06/13/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	87.6 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	3220	5.00	mg/L	1	B4F1343	KRM	06/13/2024	06/18/2024	
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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: GS-10048
Project: KMG - Tuttle L 16-7

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 B4F1332 - EPA 5030B (Water)										
Blank (B4F1332-BLK1)					Prepared: 06/13/2024 Analyzed: 06/13/2024					
1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	70-130			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1332 - EPA 5030B (Water)										
LCS (B4F1332-BS1)					Prepared: 06/13/2024 Analyzed: 06/13/2024					
1,2,4-Trimethylbenzene	46.9	2.00	ug/L	50.0		93.9	70-130			
1,3,5-Trimethylbenzene	46.3	2.00	"	50.0		92.5	70-130			
Benzene	48.5	1.00	"	50.0		97.0	70-130			
Ethylbenzene	49.4	1.00	"	50.0		98.7	70-130			
m,p-Xylene	100	2.00	"	100		100	70-130			
Naphthalene	48.7	2.00	"	50.0		97.4	70-130			
o-Xylene	45.8	1.00	"	50.0		91.7	70-130			
Toluene	51.7	1.00	"	50.0		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.2	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.6	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 B4F1332 - EPA 5030B (Water)

Matrix Spike (B4F1332-MS1)		Source: Y406366-01			Prepared: 06/13/2024 Analyzed: 06/13/2024					
1,2,4-Trimethylbenzene	50.4	2.00	ug/L	50.0	ND	101	70-130			
1,3,5-Trimethylbenzene	50.0	2.00	"	50.0	ND	100	70-130			
Benzene	49.3	1.00	"	50.0	ND	98.5	70-130			
Ethylbenzene	49.5	1.00	"	50.0	ND	99.0	70-130			
m,p-Xylene	93.0	2.00	"	100	ND	93.0	70-130			
Naphthalene	48.2	2.00	"	50.0	1.04	94.4	70-130			
o-Xylene	43.5	1.00	"	50.0	ND	87.1	70-130			
Toluene	51.7	1.00	"	50.0	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.9	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.2	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
Batch B4F1332 - EPA 5030B (Water)										
Matrix Spike Dup (B4F1332-MSD1)	Source: Y406366-01				Prepared: 06/13/2024 Analyzed: 06/13/2024					
1,2,4-Trimethylbenzene	53.8	2.00	ug/L	50.0	ND	108	70-130	6.35	20	
1,3,5-Trimethylbenzene	55.5	2.00	"	50.0	ND	111	70-130	10.3	20	
Benzene	55.0	1.00	"	50.0	ND	110	70-130	10.9	20	
Ethylbenzene	56.9	1.00	"	50.0	ND	114	70-130	13.9	20	
m,p-Xylene	108	2.00	"	100	ND	108	70-130	15.3	20	
Naphthalene	54.1	2.00	"	50.0	1.04	106	70-130	11.4	20	
o-Xylene	49.3	1.00	"	50.0	ND	98.5	70-130	12.4	20	
Toluene	54.2	1.00	"	50.0	ND	108	70-130	4.63	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.9	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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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Classical Chemistry Parameters - 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 B4F1343 - NO PREP

Blank (B4F1343-BLK1)

Prepared: 06/13/2024 Analyzed: 06/18/2024

Total Dissolved Solids ND 5.00 mg/L

LCS (B4F1343-BS1)

Prepared: 06/13/2024 Analyzed: 06/18/2024

Total Dissolved Solids 998 5.00 mg/L 1020 97.8 90-110

Duplicate (B4F1343-DUP1)

Source: Y406356-12

Prepared: 06/13/2024 Analyzed: 06/18/2024

Total Dissolved Solids 930 5.00 mg/L 910 2.17 10

Batch B4F1402 - Filter .45um non acidified

Blank (B4F1402-BLK1)

Prepared: 06/14/2024 Analyzed: 06/15/2024

Chloride ND 0.250 mg/L

Sulfate ND 0.250 "

LCS (B4F1402-BS1)

Prepared: 06/14/2024 Analyzed: 06/15/2024

Chloride 4.09 0.250 mg/L 4.00 102 90-110

Sulfate 4.13 0.250 " 4.00 103 90-110

Matrix Spike (B4F1402-MS1)

Source: Y406366-01

Prepared: 06/14/2024 Analyzed: 06/15/2024

Chloride 638 mg/L 500 159 95.8 90-110

Sulfate 597 " 500 89.1 102 90-110

Matrix Spike Dup (B4F1402-MSD1)

Source: Y406366-01

Prepared: 06/14/2024 Analyzed: 06/15/2024

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Andy Sagen
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Project: KMG - Tuttle L 16-7

Classical Chemistry Parameters - 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 B4F1402 - Filter .45um non acidified

Matrix Spike Dup (B4F1402-MSD1)			Source: Y406366-01		Prepared: 06/14/2024 Analyzed: 06/15/2024					
Chloride	642		mg/L	500	159	96.6	90-110	0.664	5	
Sulfate	602		"	500	89.1	103	90-110	0.897	5	

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Project: KMG - Tuttle L 16-7

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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