



April 11, 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. March 19, 2024. This project is associated with Origins project number Y403509-01.

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
BH01R2-031924	Y403509-01	Water	March 19, 2024 13:18	03/19/2024 16:20
BH04R-031924	Y403509-02	Water	March 19, 2024 14:06	03/19/2024 16:20
BH08R-031924	Y403509-03	Water	March 19, 2024 13:06	03/19/2024 16:20
BH09R-031924	Y403509-04	Water	March 19, 2024 14:40	03/19/2024 16:20
BH10-031924	Y403509-05	Water	March 19, 2024 12:55	03/19/2024 16:20
BH11R-031924	Y403509-06	Water	March 19, 2024 13:55	03/19/2024 16:20
BH12-031924	Y403509-07	Water	March 19, 2024 14:18	03/19/2024 16:20
BH13-031924	Y403509-08	Water	March 19, 2024 14:28	03/19/2024 16:20
BH14-031924	Y403509-09	Water	March 19, 2024 12:43	03/19/2024 16:20

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

ORIGINS

LABORATORY, INC

www.originslaboratory.com

4403509

page 1 of 1

Client: GSH/Tasman
Address: 6855 W 119th Ave.
Broomfield, CO 80020
Telephone Number: PM Contact Number (720) 959-3651
Email Address: OviTasman@originslab.com

Project Manager: Andy Sagen
Project Name: Tuttle L 16-7
Project Number: GS-10048
Samples Collected By: Collette Ramsey
Method of Delivery (Circle One): Hand Delivered (Drop) Service Center Drop FedEx (US)

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis	Turnaround Time
BH01R-031924	03/19/2024	1318	4	Unpreserved	Soil	WATER	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>
BH04R-031924		1406		Other	Groundwater		
BH06R-031924		1306					
BH07R-031924		1448					
BH10-031924		1255					
BH1R-031924		1355					
BH12-031924		1418					
BH13-031924		1428					
BH14-031924		1243					
Relinquished By: [Signature]	Date: 3/19/2024	Time: 1020		Received By: [Signature]	Date: 3/19/24	Time: 1020	
Relinquished By: [Signature]	Date: [Blank]	Time: [Blank]		Received By: [Blank]	Date: [Blank]	Time: [Blank]	

Date Results Needed

0

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y403509

Client: Tasman

Client Project ID: Tuttle L 16-7

Checklist Completed by: EHS

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

Date/time completed: 3/19/24

Airbill #: N/A

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

Cooler Number/Temperature: 110 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: 1004

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 (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):	<u>Write Out on COC</u>			

⁽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 3/21/24

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

BH01R2-031924

3/19/2024 1:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403509-01 (Water)

Anions by IC 300.0

Chloride	145	31.2	mg/L	125	B4C2007	DLT	03/20/2024	04/03/2024	
Sulfate	157	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4C2108	ZZZ	03/21/2024	03/21/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1200	5.00	mg/L	1	B4C2014	KRM	03/20/2024	03/22/2024	
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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-031924
3/19/2024 2:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403509-02 (Water)

Anions by IC 300.0

Chloride	132	31.2	mg/L	125	B4C2007	DLT	03/20/2024	04/03/2024	
Sulfate	181	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4C2108	ZZZ	03/21/2024	03/21/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.0 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	960	5.00	mg/L	1	B4C2014	KRM	03/20/2024	03/22/2024	
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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-031924
3/19/2024 1:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403509-03 (Water)

Anions by IC 300.0

Chloride	131	31.2	mg/L	125	B4C2007	DLT	03/20/2024	04/03/2024	
Sulfate	261	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4C2108	ZZZ	03/21/2024	03/21/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.9 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	920	5.00	mg/L	1	B4C2014	KRM	03/20/2024	03/22/2024	
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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-031924
3/19/2024 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403509-04 (Water)

Anions by IC 300.0

Chloride	266	31.2	mg/L	125	B4C2007	DLT	03/20/2024	04/03/2024	
Sulfate	ND	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	11.2	2.00	ug/L	1	B4C2108	ZZZ	03/21/2024	03/22/2024	
1,3,5-Trimethylbenzene	4.10	2.00	"	"	"	ZZZ	"	"	
Benzene	99.6	1.00	"	"	"	ZZZ	"	"	
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	2.46	2.00	"	"	"	ZZZ	"	"	
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	13.2	1.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	780	5.00	mg/L	1	B4C2014	KRM	03/20/2024	03/22/2024	
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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

BH10-031924

3/19/2024 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403509-05 (Water)

Anions by IC 300.0

Chloride	471	31.2	mg/L	125	B4C2007	DLT	03/20/2024	04/03/2024	
Sulfate	150	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4C2108	ZZZ	03/21/2024	03/22/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.2 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1530	5.00	mg/L	1	B4C2014	KRM	03/20/2024	03/22/2024	
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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

BH11R-031924
3/19/2024 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403509-06 (Water)

Anions by IC 300.0

Chloride	438	31.2	mg/L	125	B4C2007	DLT	03/20/2024	04/03/2024	
Sulfate	2390	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4C2108	ZZZ	03/21/2024	03/22/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	4650	5.00	mg/L	1	B4C2014	KRM	03/20/2024	03/22/2024	
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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

BH12-031924
3/19/2024 2:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403509-07 (Water)

Anions by IC 300.0

Chloride	112	31.2	mg/L	125	B4C2007	DLT	03/20/2024	04/03/2024	
Sulfate	335	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4C2108	ZZZ	03/21/2024	03/22/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	956	5.00	mg/L	1	B4C2014	KRM	03/20/2024	03/22/2024	
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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

BH13-031924

3/19/2024 2:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403509-08 (Water)

Anions by IC 300.0

Chloride	119	31.2	mg/L	125	B4C2007	DLT	03/20/2024	04/03/2024	
Sulfate	157	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4C2108	ZZZ	03/21/2024	03/22/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.8 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	882	5.00	mg/L	1	B4C2014	KRM	03/20/2024	03/22/2024	
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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

BH14-031924

3/19/2024 12:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403509-09 (Water)

Anions by IC 300.0

Chloride	1320	31.2	mg/L	125	B4C2008	DLT	03/20/2024	04/03/2024	
Sulfate	272	31.2	"	"	"	DLT	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4C2108	ZZZ	03/21/2024	03/22/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.1 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2560	5.00	mg/L	1	B4C2014	KRM	03/20/2024	03/22/2024	
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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 B4C2108 - EPA 5030B (Water)										
Blank (B4C2108-BLK1)					Prepared: 03/21/2024 Analyzed: 03/21/2024					
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	62		"	62.5		99.0	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	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 B4C2108 - EPA 5030B (Water)										
LCS (B4C2108-BS1)					Prepared: 03/21/2024 Analyzed: 03/21/2024					
1,2,4-Trimethylbenzene	52.0	2.00	ug/L	50.0		104	70-130			
1,3,5-Trimethylbenzene	54.4	2.00	"	50.0		109	70-130			
Benzene	50.7	1.00	"	50.0		101	70-130			
Ethylbenzene	53.0	1.00	"	50.0		106	70-130			
m,p-Xylene	108	2.00	"	100		108	70-130			
Naphthalene	53.0	2.00	"	50.0		106	70-130			
o-Xylene	49.6	1.00	"	50.0		99.1	70-130			
Toluene	52.5	1.00	"	50.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.0	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.8	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
Batch B4C2108 - EPA 5030B (Water)										
Matrix Spike (B4C2108-MS1)		Source: Y403509-01			Prepared: 03/21/2024 Analyzed: 03/21/2024					
1,2,4-Trimethylbenzene	54.7	2.00	ug/L	50.0	ND	109	70-130			
1,3,5-Trimethylbenzene	58.9	2.00	"	50.0	ND	118	70-130			
Benzene	50.3	1.00	"	50.0	ND	101	70-130			
Ethylbenzene	59.2	1.00	"	50.0	ND	118	70-130			
m,p-Xylene	113	2.00	"	100	ND	113	70-130			
Naphthalene	41.2	2.00	"	50.0	ND	82.3	70-130			
o-Xylene	49.4	1.00	"	50.0	ND	98.9	70-130			
Toluene	54.1	1.00	"	50.0	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	52		"	62.5		83.9	70-130			
Surrogate: Toluene-d8	67		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C2108 - EPA 5030B (Water)										
Matrix Spike Dup (B4C2108-MSD1)	Source: Y403509-01				Prepared: 03/21/2024 Analyzed: 03/21/2024					
1,2,4-Trimethylbenzene	51.5	2.00	ug/L	50.0	ND	103	70-130	6.10	20	
1,3,5-Trimethylbenzene	54.5	2.00	"	50.0	ND	109	70-130	7.65	20	
Benzene	50.5	1.00	"	50.0	ND	101	70-130	0.457	20	
Ethylbenzene	53.2	1.00	"	50.0	ND	106	70-130	10.6	20	
m,p-Xylene	103	2.00	"	100	ND	103	70-130	8.81	20	
Naphthalene	49.1	2.00	"	50.0	ND	98.1	70-130	17.5	20	
o-Xylene	45.4	1.00	"	50.0	ND	90.8	70-130	8.48	20	
Toluene	52.7	1.00	"	50.0	ND	105	70-130	2.59	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.0	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		93.6	70-130			

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Andy Sagen
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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
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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 B4C2007 - Filter .45um non acidified

Blank (B4C2007-BLK1)

Prepared: 03/20/2024 Analyzed: 04/03/2024

Chloride	ND	0.250	mg/L
Sulfate	ND	0.250	"

LCS (B4C2007-BS1)

Prepared: 03/20/2024 Analyzed: 04/03/2024

Chloride	3.84	0.250	mg/L	4.00	96.0	90-110
Sulfate	3.77	0.250	"	4.00	94.2	90-110

Matrix Spike (B4C2007-MS1)

Source: Y403504-02

Prepared: 03/20/2024 Analyzed: 04/03/2024

Chloride	699	mg/L	500	186	103	90-110
Sulfate	797	"	500	289	101	90-110

Matrix Spike Dup (B4C2007-MSD1)

Source: Y403504-02

Prepared: 03/20/2024 Analyzed: 04/03/2024

Chloride	699	mg/L	500	186	103	90-110	0.0608	5
Sulfate	797	"	500	289	101	90-110	0.00628	5

Batch B4C2008 - Filter .45um non acidified

Blank (B4C2008-BLK1)

Prepared: 03/20/2024 Analyzed: 04/03/2024

Chloride	ND	0.250	mg/L
Sulfate	ND	0.250	"

LCS (B4C2008-BS1)

Prepared: 03/20/2024 Analyzed: 04/03/2024

Chloride	4.13	0.250	mg/L	4.00	103	90-110
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Tasman Geosciences
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Broomfield CO 80020

Andy Sagen
Project Number: GS-10048
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
Batch B4C2008 - Filter .45um non acidified										
LCS (B4C2008-BS1)					Prepared: 03/20/2024 Analyzed: 04/03/2024					
Sulfate	4.04	0.250	mg/L	4.00		101	90-110			
Matrix Spike (B4C2008-MS1)					Source: Y403510-01 Prepared: 03/20/2024 Analyzed: 04/03/2024					
Chloride	520		mg/L	500	0.00	104	90-110			
Sulfate	1260		"	500	740	104	90-110			
Matrix Spike Dup (B4C2008-MSD1)					Source: Y403510-01 Prepared: 03/20/2024 Analyzed: 04/03/2024					
Chloride	520		mg/L	500	0.00	104	90-110	0.0697	5	
Sulfate	1260		"	500	740	105	90-110	0.242	5	
Batch B4C2014 - NO PREP										
Blank (B4C2014-BLK1)					Prepared: 03/20/2024 Analyzed: 03/22/2024					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B4C2014-BS1)					Prepared: 03/20/2024 Analyzed: 03/22/2024					
Total Dissolved Solids	972	5.00	mg/L	1030		94.4	90-110			
Duplicate (B4C2014-DUP1)					Source: Y403504-05 Prepared: 03/20/2024 Analyzed: 03/22/2024					
Total Dissolved Solids	892	5.00	mg/L		934			4.60	10	

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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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