



August 03, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - GS-15868

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. July 26, 2021. This project is associated with Origins project number Y107524-01.

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

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01-072621	Y107524-01	Water	July 26, 2021 10:42	07/26/2021 17:30
BH02-072621	Y107524-02	Water	July 26, 2021 11:00	07/26/2021 17:30
BH03-072621	Y107524-03	Water	July 26, 2021 11:18	07/26/2021 17:30
BH04-072621	Y107524-04	Water	July 26, 2021 11:30	07/26/2021 17:30
BH05-072621	Y107524-05	Water	July 26, 2021 11:40	07/26/2021 17:30
BH06-072621	Y107524-06	Water	July 26, 2021 11:30	07/26/2021 17:30
BH07-072621	Y107524-07	Water	July 26, 2021 11:10	07/26/2021 17:30
BH08-072621	Y107524-08	Water	July 26, 2021 10:45	07/26/2021 17:30
BH09-072621	Y107524-09	Water	July 26, 2021 10:55	07/26/2021 17:30
BH10-072621	Y107524-10	Water	July 26, 2021 10:36	07/26/2021 17:30
BH11-072621	Y107524-11	Water	July 26, 2021 11:23	07/26/2021 17:30

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 1

www.originslaboratory.com



page of

Client: GS / Tasman
Address: _____
Telephone Number: _____
Email Address: m.jahn@tasmangeo.com

Project Manager: Mike Jahn
Project Name: King Addie M GU 1
Project Number: GS-15868
Samples Collected By: BL, CR, JC

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summ #	Other	Full dls	
BH01 - 072621	072621	1042	1	X				X					1
BH02 - 072621		1100	3										2
BH03 - 072621		1118	4										3
BH04 - 072621		1150											4
BH05 - 072621		1140											5
BH06 - 072621		1130											6
BH07 - 072621		1110											7
BH08 - 072621		1045											8
BH09 - 072621		1055											9
BH10 - 072621		1036											10
Relinquished by: _____	Date: <u>7-26-21</u>	Time: _____	Time: _____	Received By: <u>[Signature]</u>	Date: <u>7-26-21</u>	Time: <u>17:30</u>	Turnaround Time: <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> Standard						
Relinquished by: _____	Date: _____	Time: _____	Time: _____	Received By: _____	Date: _____	Time: _____							

Date Results Needed:

Temp Received: 4.8

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.

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 1

ORIGINS

LABORATORY, INC

www.originslaboratory.com

Y107624

page of

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Client: Gill Tisuan
 Address: _____
 Telephone Number: _____
 Email Address: kgilwa@origins-lab.com

Project Manager: Mike John
 Project Name: King Mobile in gun
 Project Number: SI-1588
 Samples Collected By: BL, CH, JC

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Container #	Other			
B11-072621	7-26-21	11:23	4	X				X					X	1
														2
														3
														4
														5
														6
														7
														8
														9
														10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>[Signature]</u>	7-26-21		<u>[Signature]</u>	7-26-21	17:25	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>

Temp Received- 4.8

Date Results Needed

Origins Laboratory, Inc.

Intent

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

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y107524

Client: Tasman/KMG
Client Project ID: King Addie

Checklist Completed by: Jm

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

Date/time completed: 7-27-21

Airbill #: N/A

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

Cooler Number/Temperature: 1 4-8 °C / °C / °C (Describe) °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{(1)?}	<input checked="" type="checkbox"/>	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCL
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) Jm

Date/Time Reviewed 7/28/21

Origins Laboratory, Inc.

Jm

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 1

BH01-072621

7/26/2021 10:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107524-01 (Water)

Anions by IC 300.0

Chloride	180	31.2	mg/L	125	B1G2733	JMA	07/27/2021	07/29/2021	
Sulfate	297	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1G2803	KDK	07/28/2021	07/28/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1030	5.00	mg/L	1	B1G2815	DJL	07/28/2021	07/29/2021	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 1

BH02-072621

7/26/2021 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107524-02 (Water)

Anions by IC 300.0

Chloride	179	31.2	mg/L	125	B1G2733	JMA	07/27/2021	07/29/2021	
Sulfate	279	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1G2803	KDK	07/28/2021	07/28/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1040	5.00	mg/L	1	B1G2815	DJL	07/28/2021	07/29/2021	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 1

BH03-072621

7/26/2021 11:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107524-03 (Water)

Anions by IC 300.0

Chloride	179	31.2	mg/L	125	B1G2733	JMA	07/27/2021	07/29/2021	
Sulfate	323	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1G2803	KDK	07/28/2021	07/28/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1160	5.00	mg/L	1	B1G2815	DJL	07/28/2021	07/29/2021	
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Origins Laboratory, Inc.

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Tasman Geosciences

6855 West 119th Avenue

Broomfield CO 80020

Mike Jahn

Project Number: GS-15868

Project: KMG - King Addie M GU 1

BH04-072621

7/26/2021 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y107524-04 (Water)

Anions by IC 300.0

Chloride	438	31.2	mg/L	125	B1G2733	JMA	07/27/2021	07/29/2021	
Sulfate	2920	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1G2803	KDK	07/28/2021	07/28/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4

111 %

70-130

"

"

"

Surrogate: Toluene-d8

106 %

70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

95.1 %

70-130

"

"

"

Total Dissolved Solids by 2540C

Total Dissolved Solids	5360	5.00	mg/L	1	B1G2815	DJL	07/28/2021	07/29/2021	
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Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 1

BH05-072621

7/26/2021 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107524-05 (Water)

Anions by IC 300.0

Chloride	198	31.2	mg/L	125	B1G2733	JMA	07/27/2021	07/29/2021	
Sulfate	297	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1G2803	KDK	07/28/2021	07/28/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	74.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	133 %	70-130			"	"	"	S-07

Total Dissolved Solids by 2540C

Total Dissolved Solids	1210	5.00	mg/L	1	B1G2815	DJL	07/28/2021	07/29/2021	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 1

BH06-072621

7/26/2021 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107524-06 (Water)

Anions by IC 300.0

Chloride	183	31.2	mg/L	125	B1G2733	JMA	07/27/2021	07/29/2021	
Sulfate	398	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1G2803	KDK	07/28/2021	07/28/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.3 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1260	5.00	mg/L	1	B1G2815	DJL	07/28/2021	07/29/2021	
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Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 1

BH07-072621

7/26/2021 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107524-07 (Water)

Anions by IC 300.0

Chloride	165	31.2	mg/L	125	B1G2733	JMA	07/27/2021	07/29/2021	
Sulfate	253	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1G2803	KDK	07/28/2021	07/28/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.1 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1080	5.00	mg/L	1	B1G2815	DJL	07/28/2021	07/29/2021	
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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 1

BH08-072621

7/26/2021 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107524-08 (Water)

Anions by IC 300.0

Chloride	163	31.2	mg/L	125	B1G2733	JMA	07/27/2021	07/29/2021	
Sulfate	253	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1G2803	KDK	07/28/2021	07/28/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	976	5.00	mg/L	1	B1G2815	DJL	07/28/2021	07/29/2021	
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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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 1

BH09-072621

7/26/2021 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107524-09 (Water)

Anions by IC 300.0

Chloride	162	31.2	mg/L	125	B1G2733	JMA	07/27/2021	07/29/2021	
Sulfate	276	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1G2803	KDK	07/28/2021	07/28/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	85.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1010	5.00	mg/L	1	B1G2815	DJL	07/28/2021	07/29/2021	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 1

BH10-072621

7/26/2021 10:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107524-10 (Water)

Anions by IC 300.0

Chloride	187	31.2	mg/L	125	B1G2733	JMA	07/27/2021	07/29/2021	
Sulfate	264	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1G2803	KDK	07/28/2021	07/28/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1020	5.00	mg/L	1	B1G2815	DJL	07/28/2021	07/29/2021	
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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 1

BH11-072621

7/26/2021 11:23:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107524-11 (Water)

Anions by IC 300.0

Chloride	176	31.2	mg/L	125	B1G2733	JMA	07/27/2021	07/29/2021	
Sulfate	291	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1G2803	KDK	07/28/2021	07/28/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1170	5.00	mg/L	1	B1G2815	DJL	07/28/2021	07/29/2021	
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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 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 B1G2803 - EPA 5030B (Water)										
Blank (B1G2803-BLK1)					Prepared: 07/28/2021 Analyzed: 07/28/2021					
1,2,4-Trimethylbenzene	ND	1.00	ug/L							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	4.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 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 B1G2803 - EPA 5030B (Water)										
LCS (B1G2803-BS1)					Prepared: 07/28/2021 Analyzed: 07/28/2021					
1,2,4-Trimethylbenzene	29.3	1.00	ug/L	25.0		117	70-130			
1,3,5-Trimethylbenzene	28.4	1.00	"	25.0		113	70-130			
Benzene	27.7	1.00	"	25.0		111	70-130			
Ethylbenzene	27.0	1.00	"	25.0		108	70-130			
m,p-Xylene	55.7	2.00	"	50.0		111	70-130			
Naphthalene	26.2	4.00	"	25.0		105	70-130			
o-Xylene	27.5	1.00	"	25.0		110	70-130			
Toluene	28.7	1.00	"	25.0		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		110	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 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 B1G2803 - EPA 5030B (Water)										
Matrix Spike (B1G2803-MS1)		Source: Y107521-21			Prepared: 07/28/2021 Analyzed: 07/28/2021					
1,2,4-Trimethylbenzene	156	1.00	ug/L	25.0	119	151	70-130			QM-07
1,3,5-Trimethylbenzene	136	1.00	"	25.0	123	53.7	70-130			QM-07
Benzene	33.1	1.00	"	25.0	1.02	128	70-130			
Ethylbenzene	39.7	1.00	"	25.0	1.11	155	70-130			QM-07
m,p-Xylene	81.3	2.00	"	50.0	6.90	149	70-130			QM-07
Naphthalene	25.2	4.00	"	25.0	4.16	84.2	70-130			
o-Xylene	36.9	1.00	"	25.0	0.710	145	70-130			QM-07
Toluene	31.0	1.00	"	25.0	0.320	123	70-130			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	85		"	62.5		135	70-130			S-04

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6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 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 B1G2803 - EPA 5030B (Water)										
Matrix Spike Dup (B1G2803-MSD1)					Source: Y107521-21					
					Prepared: 07/28/2021		Analyzed: 07/28/2021			
1,2,4-Trimethylbenzene	116	1.00	ug/L	25.0	119	NR	70-130	29.2	20	QM-07, QR-03
1,3,5-Trimethylbenzene	117	1.00	"	25.0	123	NR	70-130	15.7	20	QM-07
Benzene	32.7	1.00	"	25.0	1.02	127	70-130	1.12	20	
Ethylbenzene	35.0	1.00	"	25.0	1.11	136	70-130	12.7	20	QM-07
m,p-Xylene	73.8	2.00	"	50.0	6.90	134	70-130	9.72	20	QM-07
Naphthalene	32.2	4.00	"	25.0	4.16	112	70-130	24.4	20	QR-03
o-Xylene	35.0	1.00	"	25.0	0.710	137	70-130	5.23	20	QM-07
Toluene	32.1	1.00	"	25.0	0.320	127	70-130	3.23	20	
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	70-130			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 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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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 B1G2733 - Filter .45um non acidified

Blank (B1G2733-BLK1)

Prepared: 07/27/2021 Analyzed: 07/28/2021

Chloride	ND	0.250	mg/L
Fluoride	ND	0.100	"
Bromide	ND	0.100	"
Sulfate	ND	0.250	"
Nitrate	ND	0.100	"
Nitrite	ND	0.250	"
Phosphate	ND	0.100	"

LCS (B1G2733-BS1)

Prepared: 07/27/2021 Analyzed: 07/29/2021

Chloride	3.95	0.250	mg/L	4.00	98.7	90-110
Fluoride	ND	0.100	"	4.00		90-110
Bromide	ND	0.100	"	4.00		90-110
Sulfate	3.82	0.250	"	4.00	95.4	90-110
Nitrate	4.06	0.100	"	4.00	102	90-110
Nitrite	ND	0.250	"	4.00		90-110
Phosphate	ND	0.100	"	4.00		90-110

Matrix Spike (B1G2733-MS1)

Source: Y107521-11

Prepared: 07/27/2021 Analyzed: 07/29/2021

Chloride	1370		mg/L	500	880	98.0	80-120
Fluoride	0.00		"	500	0.00		80-120
Bromide	0.00		"	500	0.00		80-120
Sulfate	3410		"	500	2940	93.1	80-120

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 1

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 B1G2733 - Filter .45um non acidified										
Matrix Spike (B1G2733-MS1)		Source: Y107521-11			Prepared: 07/27/2021 Analyzed: 07/29/2021					
Nitrate	826		mg/L	500	322	101	80-120			
Nitrite	0.00		"	500	0.00		80-120			
Phosphate	0.00		"	500	0.00		80-120			
Matrix Spike Dup (B1G2733-MSD1)		Source: Y107521-11			Prepared: 07/27/2021 Analyzed: 07/29/2021					
Chloride	1370		mg/L	500	880	97.0	80-120	0.336	20	
Fluoride	0.00		"	500	0.00		80-120		20	
Bromide	0.00		"	500	0.00		80-120		20	
Sulfate	3400		"	500	2940	91.1	80-120	0.292	20	
Nitrate	822		"	500	322	100	80-120	0.441	20	
Nitrite	0.00		"	500	0.00		80-120		20	
Phosphate	0.00		"	500	0.00		80-120		20	
Batch B1G2815 - NO PREP										
Blank (B1G2815-BLK1)		Prepared: 07/28/2021 Analyzed: 07/29/2021								
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B1G2815-BS1)		Prepared: 07/28/2021 Analyzed: 07/29/2021								
Total Dissolved Solids	958	5.00	mg/L	1000		95.8	85-115			
Duplicate (B1G2815-DUP1)		Source: Y107521-13			Prepared: 07/28/2021 Analyzed: 07/29/2021					
Total Dissolved Solids	6200	5.00	mg/L		6300			1.54	20	

Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: GS-15868
Project: KMG - King Addie M GU 1

Notes and Definitions

- U Sample is Non-Detect.
- S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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.



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