



December 15, 2020

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. December 14, 2020. This project is associated with Origins project number Y012205-01.

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: 90257194

Project: KMG - King Addie M GU 1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B02@12'	Y012205-01	Soil	December 14, 2020 15:02	12/14/2020 16:30
N02@10'	Y012205-02	Soil	December 14, 2020 15:04	12/14/2020 16:30
S02@10'	Y012205-03	Soil	December 14, 2020 15:06	12/14/2020 16:30
E02@10'	Y012205-04	Soil	December 14, 2020 15:08	12/14/2020 16:30
W02@10'	Y012205-05	Soil	December 14, 2020 15:10	12/14/2020 16:30
GW01	Y012205-06	Water	December 14, 2020 15:00	12/14/2020 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.*

Jen Pellegrini, Project Manager

Origins Laboratory, Inc.

Jeff Pellipini

*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: 90257194  
Project: KMG - King Addie M GU 1

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y012205

Client: Tasman

Client Project ID: King Addie M GU 1

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 12/14/20

Airbill #: NTA

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

Cooler Number/Temperature: 1 / 6.8 °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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<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"/>	<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"/>	<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Are short holding time analytes or samples with HTS due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<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"/>	<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Additional Comments (if any):				

<sup>(1)</sup>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 narrative.

Reviewed by (Project Manager)

12/14/20  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jen 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.

Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: 90257194  
Project: KMG - King Addie M GU 1

**B02@12'**

**12/14/2020 3:02:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y012205-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	39.3	25.0	mg/kg	1	B0L1405	TEM	12/14/2020	12/14/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl 96.2 % 50-150 " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	439	5.00	mg/kg	25	B0L1404	TEM	12/14/2020	12/14/2020	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.954	0.050	"	"	"	TEM	"	"	
Xylenes, total	15.1	0.050	"	"	"	TEM	"	"	
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 83.3 % 70-130 " " "

Surrogate: Toluene-d8 131 % 70-130 " " S-04

Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.92		pH Units	1	B0L1409	DJL	12/14/2020	12/14/2020	
----	------	--	----------	---	---------	-----	------------	------------	--

**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.108	0.00502	mmhos/cm	"	B0L1410	DJL	"	12/14/2020	
---------------------------	-------	---------	----------	---	---------	-----	---	------------	--

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: 90257194  
Project: KMG - King Addie M GU 1

N02@10'

12/14/2020 3:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y012205-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	1360	25.0	mg/kg	1	B0L1405	TEM	12/14/2020	12/14/2020	
Residual Range Organics (C28-C40)	177	100	"	"	"	TEM	"	"	

Surrogate: o-Terphenyl 132 % 50-150 " " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	579	500	mg/kg	2500	B0L1404	TEM	12/14/2020	12/15/2020	
Benzene	0.900	0.498	"	250	"	TEM	"	12/14/2020	
Toluene	ND	0.498	"	"	"	TEM	"	"	U
Ethylbenzene	17.7	0.498	"	"	"	TEM	"	"	
Xylenes, total	294	4.98	"	2500	"	TEM	"	"	
Naphthalene	2.30	2.00	"	250	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 81.5 % 70-130 " " "

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

Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager



Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: 90257194  
Project: KMG - King Addie M GU 1

S02@10'

12/14/2020 3:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.**  
Y012205-03 (Soil)

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	372	25.0	mg/kg	1	B0L1405	TEM	12/14/2020	12/14/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl 99.6 % 50-150 " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	1600	50.0	mg/kg	250	B0L1404	TEM	12/14/2020	12/14/2020	
Benzene	0.505	0.498	"	"	"	TEM	"	"	
Toluene	0.114	0.050	"	25	"	TEM	"	12/15/2020	
Ethylbenzene	1.92	0.498	"	250	"	TEM	"	12/14/2020	
Xylenes, total	25.5	0.498	"	"	"	TEM	"	"	
Naphthalene	0.691	0.200	"	25	"	TEM	"	12/15/2020	

Surrogate: 1,2-Dichloroethane-d4 81.8 % 70-130 " " 12/14/2020  
Surrogate: Toluene-d8 109 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 107 % 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.

Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: 90257194  
Project: KMG - King Addie M GU 1

E02@10'

12/14/2020 3:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y012205-04 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	64.4	25.0	mg/kg	1	B0L1405	TEM	12/14/2020	12/14/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl 78.4 % 50-150 " " "

**GBTEX + Naphthalene by EPA 8260D**

Gasoline Range Hydrocarbons	49.1	5.00	mg/kg	25	B0L1404	TEM	12/14/2020	12/15/2020	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	0.188	0.050	"	"	"	TEM	"	"	
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 84.1 % 70-130 " " "  
Surrogate: Toluene-d8 105 % 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.

Jen Pellegrini, Project Manager



Tasman Geosciences

6855 West 119th Avenue

Broomfield CO 80020

Mike Jahn

Project Number: 90257194

Project: KMG - King Addie M GU 1

W02@10'

12/14/2020 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.  
Y012205-05 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	465	25.0	mg/kg	1	B0L1405	TEM	12/14/2020	12/14/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	92.8 %	50-150	"	"	"	"	"	"	
------------------------	--------	--------	---	---	---	---	---	---	--

## GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	1550	50.0	mg/kg	250	B0L1404	TEM	12/14/2020	12/14/2020	
Benzene	0.294	0.050	"	25	"	TEM	"	12/15/2020	
Toluene	0.142	0.050	"	"	"	TEM	"	"	
Ethylbenzene	2.91	0.498	"	250	"	TEM	"	12/14/2020	
Xylenes, total	28.3	0.498	"	"	"	TEM	"	12/15/2020	
Naphthalene	1.04	0.200	"	25	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	82.5 %	70-130	"	"	"	"	12/14/2020	
Surrogate: Toluene-d8	112 %	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.

Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: 90257194  
Project: KMG - King Addie M GU 1

## GW01

12/14/2020 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

## Origins Laboratory, Inc. Y012205-06 (Water)

### BTEX by EPA 8260D

Benzene	426	100	ug/L	100	B0L1006	TEM	12/14/2020	12/14/2020	
Toluene	ND	100	"	"	"	TEM	"	"	U
Ethylbenzene	956	100	"	"	"	TEM	"	"	
Xylenes, total	16200	100	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	88.4 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	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.

Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: 90257194  
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
<b>Batch B0L1006 - EPA 5030B (Water)</b>										
<b>Blank (B0L1006-BLK1)</b>					Prepared: 12/10/2020 Analyzed: 12/14/2020					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.7	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		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.*

Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: 90257194  
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
<b>Batch B0L1006 - EPA 5030B (Water)</b>										
<b>LCS (B0L1006-BS1)</b>					Prepared: 12/10/2020 Analyzed: 12/14/2020					
Benzene	54.9	1.00	ug/L	50.0		110	70-130			
Toluene	53.4	1.00	"	50.0		107	70-130			
Ethylbenzene	55.6	1.00	"	50.0		111	70-130			
m,p-Xylene	110	2.00	"	100		110	70-130			
o-Xylene	54.3	1.00	"	50.0		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.0	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	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.

Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: 90257194  
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 B0L1006 - EPA 5030B (Water)**

Matrix Spike (B0L1006-MS1)		Source: Y012139-21			Prepared: 12/10/2020 Analyzed: 12/14/2020					
Benzene	55.0	1.00	ug/L	50.0	ND	110	70-130			
Toluene	52.5	1.00	"	50.0	ND	105	70-130			
Ethylbenzene	52.5	1.00	"	50.0	ND	105	70-130			
m,p-Xylene	106	2.00	"	100	ND	106	70-130			
o-Xylene	51.9	1.00	"	50.0	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.9	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		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.

Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: 90257194  
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 B0L1006 - EPA 5030B (Water)**

Matrix Spike Dup (B0L1006-MSD1)		Source: Y012139-21			Prepared: 12/10/2020 Analyzed: 12/14/2020					
Benzene	54.9	1.00	ug/L	50.0	ND	110	70-130	0.0546	20	
Toluene	54.2	1.00	"	50.0	ND	108	70-130	3.09	20	
Ethylbenzene	54.7	1.00	"	50.0	ND	109	70-130	4.12	20	
m,p-Xylene	108	2.00	"	100	ND	108	70-130	2.28	20	
o-Xylene	52.1	1.00	"	50.0	ND	104	70-130	0.365	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.8	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	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.

Jen Pellegrini, Project Manager



Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: 90257194  
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
<b>Batch B0L1404 - EPA 5030 (soil)</b>										
<b>Blank (B0L1404-BLK1)</b>					Prepared: 12/14/2020 Analyzed: 12/14/2020					
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		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.4	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.

Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: 90257194  
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
<b>Batch B0L1404 - EPA 5030 (soil)</b>										
<b>LCS (B0L1404-BS1)</b>					Prepared: 12/14/2020 Analyzed: 12/14/2020					
Benzene	0.048	0.002	mg/kg	0.0500		95.2	70-130			
Toluene	0.049	0.002	"	0.0500		97.6	70-130			
Ethylbenzene	0.050	0.002	"	0.0500		101	70-130			
m,p-Xylene	0.103	0.004	"	0.100		103	70-130			
o-Xylene	0.051	0.002	"	0.0500		102	70-130			
Naphthalene	0.047	0.008	"	0.0500		94.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	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.*

Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: 90257194  
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
<b>Batch B0L1404 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B0L1404-MS1)</b>										
		<b>Source: Y012196-01</b>								
Benzene	0.050	0.002	mg/kg	0.0500	ND	99.9	70-130			
Toluene	0.051	0.002	"	0.0500	ND	102	70-130			
Ethylbenzene	0.052	0.002	"	0.0500	ND	104	70-130			
m,p-Xylene	0.107	0.004	"	0.100	ND	107	70-130			
o-Xylene	0.054	0.002	"	0.0500	ND	108	70-130			
Naphthalene	0.051	0.008	"	0.0500	0.002	99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	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.

Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: 90257194  
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
<b>Batch B0L1404 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B0L1404-MSD1)</b>		<b>Source: Y012196-01</b>			Prepared: 12/14/2020 Analyzed: 12/14/2020					
Benzene	0.049	0.002	mg/kg	0.0500	ND	98.8	70-130	1.09	20	
Toluene	0.052	0.002	"	0.0500	ND	103	70-130	0.897	20	
Ethylbenzene	0.054	0.002	"	0.0500	ND	108	70-130	3.14	20	
m,p-Xylene	0.110	0.004	"	0.100	ND	110	70-130	2.86	20	
o-Xylene	0.056	0.002	"	0.0500	ND	111	70-130	3.22	20	
Naphthalene	0.055	0.008	"	0.0500	0.002	107	70-130	7.62	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	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.

Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: 90257194  
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
<b>Batch B0L1405 - EPA 3550B</b>										
<b>Blank (B0L1405-BLK1)</b>					Prepared: 12/14/2020 Analyzed: 12/14/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	25.0		97.4	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.*

Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: 90257194  
Project: KMG - King Addie M GU 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 B0L1405 - EPA 3550B

LCS (B0L1405-BS1)

Prepared: 12/14/2020 Analyzed: 12/14/2020

Diesel (C10-C28)	1070	50.0	mg/kg	1000		107	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000		113	70-130			
Surrogate: o-Terphenyl	61		"	50.0		122	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.

Jen Pellegrini, Project Manager



Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: 90257194  
Project: KMG - King Addie M GU 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 B0L1405 - EPA 3550B

Matrix Spike (B0L1405-MS1)		Source: Y012196-01			Prepared: 12/14/2020 Analyzed: 12/14/2020					
Diesel (C10-C28)	946	50.0	mg/kg	1000	ND	94.6	70-130			
Residual Range Organics (C28-C40)	991	200	"	1000	ND	99.1	70-130			
Surrogate: o-Terphenyl	52		"	50.0		104	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.

Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: 90257194  
Project: KMG - King Addie M GU 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 B0L1405 - EPA 3550B

Matrix Spike Dup (B0L1405-MSD1)		Source: Y012196-01			Prepared: 12/14/2020 Analyzed: 12/14/2020					
Diesel (C10-C28)	992	50.0	mg/kg	1000	ND	99.2	70-130	4.78	35	
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130	8.20	35	
Surrogate: o-Terphenyl	51		"	50.0		102	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.

Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: 90257194  
Project: KMG - King Addie M GU 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

## 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 B0L1409 - NO PREP

##### Duplicate (B0L1409-DUP1)

Source: Y012205-01

Prepared: 12/14/2020 Analyzed: 12/14/2020

pH	7.75		pH Units	7.92		2.17	25
----	------	--	----------	------	--	------	----

#### Batch B0L1410 - NO PREP

##### Blank (B0L1410-BLK1)

Prepared: 12/14/2020 Analyzed: 12/14/2020

Specific Conductance (EC)	0.00250	0.00500	mmhos/cm
---------------------------	---------	---------	----------

##### Duplicate (B0L1410-DUP1)

Source: Y012205-01

Prepared: 12/14/2020 Analyzed: 12/14/2020

Specific Conductance (EC)	0.112	0.00502	mmhos/cm	0.108		3.63	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.

Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: 90257194  
Project: KMG - King Addie M GU 1

### Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*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, Project Manager