

August 15, 2024

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - State 2, 7, 26-16

Project Number - [none]

Attached are your analytical results for KMG - State 2, 7, 26-16 received by Origins Laboratory, Inc. July 15, 2024. This project is associated with Origins project number Y407372-01.

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



Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - State 2, 7, 26-16

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST1-B01@3"	Y407372-01	Soil	July 15, 2024 8:00	07/15/2024 17:20
AST2-B02@3"	Y407372-02	Soil	July 15, 2024 8:06	07/15/2024 17:20
AST3-B01@3"	Y407372-03	Soil	July 15, 2024 8:08	07/15/2024 17:20
PW-B01@4'	Y407372-04	Soil	July 15, 2024 8:12	07/15/2024 17:20
PW-N01@2'	Y407372-05	Soil	July 15, 2024 8:14	07/15/2024 17:20
SEP1-B01@4'	Y407372-06	Soil	July 15, 2024 8:22	07/15/2024 17:20
SEP1-B02@4'	Y407372-07	Soil	July 15, 2024 8:24	07/15/2024 17:20
BG-01@3"	Y407372-08	Soil	July 15, 2024 8:32	07/15/2024 17:20
BG-02@3"	Y407372-09	Soil	July 15, 2024 8:34	07/15/2024 17:20
BG-03@3"	Y407372-10	Soil	July 15, 2024 8:36	07/15/2024 17:20
BG-04@3"	Y407372-11	Soil	July 15, 2024 8:38	07/15/2024 17:20

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: [none]  
 Project: KMG - State 2, 7, 26-16

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4107372 Client: Tasman  
 Client Project ID: State 2, 7, 26-16  
 Checklist Completed by: OT/EAH Shipped Via: TLU  
 Date/time completed: 7/15/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 119 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe)  
 Thermometer ID: 7005

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"/>		<u>SO</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<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"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<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"/>	
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 case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 7/15/12

Origins Laboratory, Inc.

[Signature]

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: [none]  
 Project: KMG - State 2, 7, 26-16

**AST1-B01@3"**  
**7/15/2024 8:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.150		0.100	mg/L	1	B4G1606	07/16/2024	07/18/2024	
-------	-------	--	-------	------	---	---------	------------	------------	--

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1546	07/15/2024	07/15/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	84.2 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1547	07/15/2024	07/16/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	109 %		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.

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - State 2, 7, 26-16

**AST1-B01@3"**  
**7/15/2024 8:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	102 %		70-130			B4G15 47	07/15/2024	07/16/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.65		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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: [none]  
 Project: KMG - State 2, 7, 26-16

**AST1-B01@3"**  
**7/15/2024 8:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-01 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	95.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	91.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	110 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	95.5 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.36			pH Units	1	B4G1613	07/16/2024	07/17/2024	
----	------	--	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	0.347		0.0100	SAR	1	B4G1609	07/16/2024	07/17/2024	
-----	-------	--	--------	-----	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.247		0.00500	mmhos/cm	1	B4G1613	07/16/2024	07/17/2024	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

**Table 915 metals by EPA 6020B**

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: [none]  
 Project: KMG - State 2, 7, 26-16

**AST1-B01@3"**  
**7/15/2024 8:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-01 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	4.78		0.279	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	162		9.63	"	"	"	"	"	
Cadmium	0.159		0.0963	"	"	"	"	"	
Copper	16.5		9.63	"	"	"	"	"	
Lead	9.92		0.963	"	"	"	"	"	
Nickel	14.0		0.963	"	"	"	"	"	
Selenium	ND		0.250	"	"	"	"	"	
Silver	ND		0.0963	"	"	"	"	"	
Zinc	60.3		35.6	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.100	0.250	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
---------------------	----	-------	-------	-----------	---	---------	------------	------------	---

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: [none]  
 Project: KMG - State 2, 7, 26-16

**AST2-B02@3"**  
**7/15/2024 8:06:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B4G1606	07/16/2024	07/18/2024	
-------	----	--	-------	------	---	---------	------------	------------	--

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1546	07/15/2024	07/15/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	86.4 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1547	07/15/2024	07/16/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	108 %		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.

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - State 2, 7, 26-16

**AST2-B02@3"**  
**7/15/2024 8:06:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	100 %		70-130			B4G15 47	07/15/2024	07/16/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]		07/16/2024	07/17/2024	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	ND	0.435	"	"	"		"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1537		07/15/2024	07/16/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"		"	"	Ua
Acenaphthene	ND	0.020	"	"	"		"	"	Ua
Anthracene	ND	0.020	"	"	"		"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Chrysene	ND	0.020	"	"	"		"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	Ua
Fluoranthene	ND	0.020	"	"	"		"	"	Ua

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: [none]  
 Project: KMG - State 2, 7, 26-16

**AST2-B02@3"**  
**7/15/2024 8:06:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-02 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	88.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	88.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	115 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.38			pH Units	1	B4G1613	07/16/2024	07/17/2024	
----	------	--	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	0.427		0.0100	SAR	1	B4G1609	07/16/2024	07/17/2024	
-----	-------	--	--------	-----	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.138		0.00500	mmhos/cm	1	B4G1613	07/16/2024	07/17/2024	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

**Table 915 metals by EPA 6020B**

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: [none]  
 Project: KMG - State 2, 7, 26-16

**AST2-B02@3"**  
**7/15/2024 8:06:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-02 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.83		0.286	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	72.9		9.86	"	"	"	"	"	
Cadmium	ND		0.0986	"	"	"	"	"	
Copper	ND		9.86	"	"	"	"	"	
Lead	5.29		0.986	"	"	"	"	"	
Nickel	7.29		0.986	"	"	"	"	"	
Selenium	ND		0.256	"	"	"	"	"	
Silver	ND		0.0986	"	"	"	"	"	
Zinc	ND		36.5	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.134	0.336	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
---------------------	----	-------	-------	-----------	---	---------	------------	------------	---

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: [none]  
 Project: KMG - State 2, 7, 26-16

**AST3-B01@3"**  
**7/15/2024 8:08:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.101	mg/L	1	B4G1606	07/16/2024	07/18/2024	
-------	----	--	-------	------	---	---------	------------	------------	--

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1546	07/15/2024	07/15/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	85.6 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1547	07/15/2024	07/16/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	110 %		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.

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - State 2, 7, 26-16

**AST3-B01@3"**  
**7/15/2024 8:08:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	101 %		70-130			B4G15 47	07/15/2024	07/16/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.11		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.002		0.002	mg/kg	1	B4G1537	07/15/2024	07/16/2024	
2-Methylnaphthalene	0.005		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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: [none]  
 Project: KMG - State 2, 7, 26-16

**AST3-B01@3"**  
**7/15/2024 8:08:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-03 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	93.5 %		60-130			"	"	"	
Surrogate: Anthracene-d10	91.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	107 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	89.4 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.44			pH Units	1	B4G1613	07/16/2024	07/17/2024	
----	------	--	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	0.126		0.0100	SAR	1	B4G1609	07/16/2024	07/17/2024	
-----	-------	--	--------	-----	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.193		0.00500	mmhos/cm	1	B4G1613	07/16/2024	07/17/2024	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

**Table 915 metals by EPA 6020B**

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: [none]  
 Project: KMG - State 2, 7, 26-16

**AST3-B01@3"**

**7/15/2024 8:08:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-03 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	3.07		0.266	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	88.8		9.16	"	"	"	"	"	
Cadmium	ND		0.0916	"	"	"	"	"	
Copper	ND		9.16	"	"	"	"	"	
Lead	5.96		0.916	"	"	"	"	"	
Nickel	8.82		0.916	"	"	"	"	"	
Selenium	ND		0.238	"	"	"	"	"	
Silver	ND		0.0916	"	"	"	"	"	
Zinc	35.0		33.9	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.0820	0.205	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
---------------------	----	--------	-------	-----------	---	---------	------------	------------	---

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: [none]  
 Project: KMG - State 2, 7, 26-16

**PW-B01@4'**

**7/15/2024 8:12:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0999	mg/L	1	B4G1606	07/16/2024	07/18/2024	
-------	----	--	--------	------	---	---------	------------	------------	--

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1546	07/15/2024	07/15/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	85.3 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1547	07/15/2024	07/16/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	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.

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - State 2, 7, 26-16

**PW-B01@4'**

**7/15/2024 8:12:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	101 %		70-130			B4G15 47	07/15/2024	07/16/2024	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>2.22</b>		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	<b>0.834</b>		0.823	"	"	"	"	"	
Sodium	<b>1.08</b>		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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: [none]  
 Project: KMG - State 2, 7, 26-16

**PW-B01@4'**

**7/15/2024 8:12:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-04 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.0 %		60-130			"	"	"	
Surrogate: Anthracene-d10	83.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	113 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.40			pH Units	1	B4G1613	07/16/2024	07/17/2024	
----	------	--	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	0.871		0.0100	SAR	1	B4G1609	07/16/2024	07/17/2024	
-----	-------	--	--------	-----	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.458		0.00500	mmhos/cm	1	B4G1613	07/16/2024	07/17/2024	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

**Table 915 metals by EPA 6020B**

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: [none]  
 Project: KMG - State 2, 7, 26-16

**PW-B01@4'**

**7/15/2024 8:12:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-04 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.98		0.263	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	65.7		9.07	"	"	"	"	"	
Cadmium	ND		0.0907	"	"	"	"	"	
Copper	ND		9.07	"	"	"	"	"	
Lead	5.77		0.907	"	"	"	"	"	
Nickel	8.12		0.907	"	"	"	"	"	
Selenium	ND		0.236	"	"	"	"	"	
Silver	ND		0.0907	"	"	"	"	"	
Zinc	ND		33.6	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.112	0.280	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
---------------------	----	-------	-------	-----------	---	---------	------------	------------	---

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: [none]  
 Project: KMG - State 2, 7, 26-16

**PW-N01@2'**

**7/15/2024 8:14:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.101	mg/L	1	B4G1606	07/16/2024	07/18/2024	
-------	----	--	-------	------	---	---------	------------	------------	--

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1546	07/15/2024	07/15/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	89.2 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1547	07/15/2024	07/16/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	109 %		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.

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - State 2, 7, 26-16

**PW-N01@2'**

**7/15/2024 8:14:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	100 %		70-130			B4G15 47	07/15/2024	07/16/2024	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.924		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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: [none]  
 Project: KMG - State 2, 7, 26-16

**PW-N01@2'**

**7/15/2024 8:14:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-05 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	92.5 %		60-130			"	"	"	
Surrogate: Anthracene-d10	87.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	115 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.8 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.40			pH Units	1	B4G1614	07/16/2024	07/17/2024	
----	------	--	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	0.134		0.0100	SAR	1	B4G1610	07/16/2024	07/17/2024	
-----	-------	--	--------	-----	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.162		0.00500	mmhos/cm	1	B4G1614	07/16/2024	07/17/2024	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

**Table 915 metals by EPA 6020B**

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: [none]  
 Project: KMG - State 2, 7, 26-16

**PW-N01@2'**

**7/15/2024 8:14:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-05 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	4.68		0.282	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	132		9.71	"	"	"	"	"	
Cadmium	0.158		0.0971	"	"	"	"	"	
Copper	13.5		9.71	"	"	"	"	"	
Lead	10.1		0.971	"	"	"	"	"	
Nickel	14.0		0.971	"	"	"	"	"	
Selenium	ND		0.253	"	"	"	"	"	
Silver	ND		0.0971	"	"	"	"	"	
Zinc	47.0		35.9	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.129	0.322	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
---------------------	----	-------	-------	-----------	---	---------	------------	------------	---

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: [none]  
 Project: KMG - State 2, 7, 26-16

**SEP1-B01@4'**  
**7/15/2024 8:22:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.288		0.100	mg/L	1	B4G1606	07/16/2024	07/18/2024	
-------	-------	--	-------	------	---	---------	------------	------------	--

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1546	07/15/2024	07/15/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	87.3 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1547	07/15/2024	07/16/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	109 %		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.

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - State 2, 7, 26-16

SEP1-B01@4'  
 7/15/2024 8:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
 Y407372-06 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	101 %		70-130			B4G15 47	07/15/2024	07/16/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.44		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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: [none]  
 Project: KMG - State 2, 7, 26-16

**SEP1-B01@4'**  
**7/15/2024 8:22:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-06 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	87.5 %		60-130			"	"	"	
Surrogate: Anthracene-d10	89.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.7 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.59			pH Units	1	B4G1614	07/16/2024	07/17/2024	
----	------	--	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	0.106		0.0100	SAR	1	B4G1610	07/16/2024	07/17/2024	
-----	-------	--	--------	-----	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.240		0.00500	mmhos/cm	1	B4G1614	07/16/2024	07/17/2024	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

**Table 915 metals by EPA 6020B**

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: [none]  
 Project: KMG - State 2, 7, 26-16

**SEP1-B01@4'**

**7/15/2024 8:22:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-06 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	3.58		0.270	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	93.7		9.31	"	"	"	"	"	
Cadmium	0.112		0.0931	"	"	"	"	"	
Copper	9.66		9.31	"	"	"	"	"	
Lead	6.96		0.931	"	"	"	"	"	
Nickel	9.90		0.931	"	"	"	"	"	
Selenium	ND		0.242	"	"	"	"	"	
Silver	ND		0.0931	"	"	"	"	"	
Zinc	34.8		34.5	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.146	0.364	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
---------------------	----	-------	-------	-----------	---	---------	------------	------------	---

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: [none]  
 Project: KMG - State 2, 7, 26-16

**SEP1-B02@4'**  
**7/15/2024 8:24:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.236		0.0986	mg/L	1	B4G1606	07/16/2024	07/18/2024	
-------	-------	--	--------	------	---	---------	------------	------------	--

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1546	07/15/2024	07/15/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	82.9 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1547	07/15/2024	07/16/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	111 %		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.

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - State 2, 7, 26-16

**SEP1-B02@4'**  
**7/15/2024 8:24:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-07 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	101 %		70-130			B4G15 47	07/15/2024	07/16/2024	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.66		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	0.860		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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: [none]  
 Project: KMG - State 2, 7, 26-16

**SEP1-B02@4'**

**7/15/2024 8:24:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-07 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	93.5 %		60-130			"	"	"	
Surrogate: Anthracene-d10	87.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	106 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.63			pH Units	1	B4G1614	07/16/2024	07/17/2024	
----	------	--	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	0.221		0.0100	SAR	1	B4G1610	07/16/2024	07/17/2024	
-----	-------	--	--------	-----	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.288		0.00500	mmhos/cm	1	B4G1614	07/16/2024	07/17/2024	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

**Table 915 metals by EPA 6020B**

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: [none]  
 Project: KMG - State 2, 7, 26-16

**SEP1-B02@4'**  
**7/15/2024 8:24:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-07 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	4.22		0.273	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	111		9.40	"	"	"	"	"	
Cadmium	0.149		0.0940	"	"	"	"	"	
Copper	11.5		9.40	"	"	"	"	"	
Lead	9.55		0.940	"	"	"	"	"	
Nickel	11.4		0.940	"	"	"	"	"	
Selenium	ND		0.244	"	"	"	"	"	
Silver	ND		0.0940	"	"	"	"	"	
Zinc	40.9		34.8	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.140	0.349	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
---------------------	----	-------	-------	-----------	---	---------	------------	------------	---

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: [none]  
 Project: KMG - State 2, 7, 26-16

**BG-01@3"**

**7/15/2024 8:32:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.888		0.100	mg/L	1	B4G1606	07/16/2024	07/18/2024	
-------	-------	--	-------	------	---	---------	------------	------------	--

**Metals by Saturated Paste by EPA 6010**

Calcium	2.01		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	1.21		0.823	"	"	"	"	"	
Sodium	1.05		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.64			pH Units	1	B4G1614	07/16/2024	07/17/2024	
----	------	--	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	0.828		0.0100	SAR	1	B4G1610	07/16/2024	07/17/2024	
-----	-------	--	--------	-----	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.444		0.00500	mmhos/cm	1	B4G1614	07/16/2024	07/17/2024	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

**Table 915 metals by EPA 6020B**

Arsenic	7.22		0.255	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	252		8.78	"	"	"	"	"	
Cadmium	0.285		0.0878	"	"	"	"	"	
Copper	18.3		8.78	"	"	"	"	"	

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: [none]  
Project: KMG - State 2, 7, 26-16

**BG-01@3"**

**7/15/2024 8:32:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-08 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	15.8		0.878	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Nickel	19.9		0.878	"	"	"	"	"	
Selenium	0.306		0.228	"	"	"	"	"	
Silver	ND		0.0878	"	"	"	"	"	
Zinc	68.9		32.5	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.121	0.304	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
---------------------	----	-------	-------	-----------	---	---------	------------	------------	---

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: [none]  
 Project: KMG - State 2, 7, 26-16

**BG-02@3"**

**7/15/2024 8:34:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.992		0.0996	mg/L	1	B4G1606	07/16/2024	07/18/2024	
-------	-------	--	--------	------	---	---------	------------	------------	--

**Metals by Saturated Paste by EPA 6010**

Calcium	5.55		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	1.77		0.823	"	"	"	"	"	
Sodium	2.04		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.48			pH Units	1	B4G1614	07/16/2024	07/17/2024	
----	------	--	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	1.07		0.0100	SAR	1	B4G1610	07/16/2024	07/17/2024	
-----	------	--	--------	-----	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.14		0.00500	mmhos/cm	1	B4G1614	07/16/2024	07/17/2024	
---------------------------	------	--	---------	----------	---	---------	------------	------------	--

**Table 915 metals by EPA 6020B**

Arsenic	6.22		0.271	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	175		9.34	"	"	"	"	"	
Cadmium	0.298		0.0934	"	"	"	"	"	
Copper	17.7		9.34	"	"	"	"	"	

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: [none]  
Project: KMG - State 2, 7, 26-16

**BG-02@3"**

**7/15/2024 8:34:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-09 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	17.7		0.934	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Nickel	17.7		0.934	"	"	"	"	"	
Selenium	0.361		0.243	"	"	"	"	"	
Silver	ND		0.0934	"	"	"	"	"	
Zinc	64.8		34.5	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.133	0.333	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
---------------------	----	-------	-------	-----------	---	---------	------------	------------	---

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: [none]  
 Project: KMG - State 2, 7, 26-16

**BG-03@3"**

**7/15/2024 8:36:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.07		0.0985	mg/L	1	B4G1606	07/16/2024	07/18/2024	
-------	------	--	--------	------	---	---------	------------	------------	--

**Metals by Saturated Paste by EPA 6010**

Calcium	1.21		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.09		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.57			pH Units	1	B4G1614	07/16/2024	07/17/2024	
----	------	--	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	2.25		0.0100	SAR	1	B4G1610	07/16/2024	07/17/2024	
-----	------	--	--------	-----	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.390		0.00500	mmhos/cm	1	B4G1614	07/16/2024	07/17/2024	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

**Table 915 metals by EPA 6020B**

Arsenic	7.38		0.245	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	233		8.43	"	"	"	"	"	
Cadmium	0.310		0.0843	"	"	"	"	"	
Copper	20.8		8.43	"	"	"	"	"	

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: [none]  
 Project: KMG - State 2, 7, 26-16

**BG-03@3"**

**7/15/2024 8:36:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-10 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	17.9		0.843	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Nickel	21.5		0.843	"	"	"	"	"	
Selenium	0.341		0.219	"	"	"	"	"	
Silver	ND		0.0843	"	"	"	"	"	
Zinc	76.1		31.2	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.146	0.364	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
---------------------	----	-------	-------	-----------	---	---------	------------	------------	---

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: [none]  
 Project: KMG - State 2, 7, 26-16

**BG-04@3"**

**7/15/2024 8:38:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-11 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.991		0.0984	mg/L	1	B4G1606	07/16/2024	07/18/2024	
-------	-------	--	--------	------	---	---------	------------	------------	--

**Metals by Saturated Paste by EPA 6010**

Calcium	4.49		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	1.92		0.823	"	"	"	"	"	
Sodium	1.88		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.60			pH Units	1	B4G1614	07/16/2024	07/17/2024	
----	------	--	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	1.05		0.0100	SAR	1	B4G1610	07/16/2024	07/17/2024	
-----	------	--	--------	-----	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.797		0.00500	mmhos/cm	1	B4G1614	07/16/2024	07/17/2024	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

**Table 915 metals by EPA 6020B**

Arsenic	7.85		0.256	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	233		8.84	"	"	"	"	"	
Cadmium	0.341		0.0884	"	"	"	"	"	
Copper	23.5		8.84	"	"	"	"	"	

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: [none]  
 Project: KMG - State 2, 7, 26-16

**BG-04@3"**

**7/15/2024 8:38:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y407372-11 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	18.7		0.884	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Nickel	23.8		0.884	"	"	"	"	"	
Selenium	0.344		0.230	"	"	"	"	"	
Silver	ND		0.0884	"	"	"	"	"	
Zinc	86.5		32.7	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.125	0.314	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
---------------------	----	-------	-------	-----------	---	---------	------------	------------	---

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: [none]  
 Project: KMG - State 2, 7, 26-16

**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
<b>Batch B4G1546 - EPA 3550B</b>										
<b>Blank (B4G1546-BLK1)</b>										
					Prepared: 07/15/2024 Analyzed: 07/15/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	21		"	24.9		83.8	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.*

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - State 2, 7, 26-16

**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 B4G1546 - EPA 3550B**

**LCS (B4G1546-BS1)**

Prepared: 07/15/2024 Analyzed: 07/15/2024

Diesel (C10-C28)	907	50.0	mg/kg	1000		90.7	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	58		"	49.8		116	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.*

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - State 2, 7, 26-16

**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 B4G1546 - EPA 3550B**

<b>Matrix Spike (B4G1546-MS1)</b>	<b>Source: Y407372-01</b>			Prepared: 07/15/2024 Analyzed: 07/15/2024						
Diesel (C10-C28)	910	50.0	mg/kg	1000	ND	91.0	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

Origins Laboratory, Inc.



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

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - State 2, 7, 26-16

**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 B4G1546 - EPA 3550B**

<b>Matrix Spike Dup (B4G1546-MSD1)</b>	<b>Source: Y407372-01</b>			<b>Prepared: 07/15/2024 Analyzed: 07/15/2024</b>						
Diesel (C10-C28)	918	50.0	mg/kg	1000	ND	91.8	70-130	0.892	35	
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130	5.86	35	
<i>Surrogate: o-Terphenyl</i>	52		"	49.8		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.*

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - State 2, 7, 26-16

**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 B4G1547 - EPA 5030 (soil)**

**Blank (B4G1547-BLK1)**

Prepared: 07/15/2024 Analyzed: 07/15/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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.*

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - State 2, 7, 26-16

**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 B4G1547 - EPA 5030 (soil)

**LCS (B4G1547-BS1)**

Prepared: 07/15/2024 Analyzed: 07/15/2024

1,2,4-Trimethylbenzene	0.0979	0.00200	mg/kg	0.100		97.9	70-130			
1,3,5-Trimethylbenzene	0.0973	0.00200	"	0.100		97.3	70-130			
Benzene	0.0972	0.00200	"	0.100		97.2	70-130			
Ethylbenzene	0.0940	0.00200	"	0.100		94.0	70-130			
Naphthalene	0.0943	0.00380	"	0.100		94.3	70-130			
Toluene	0.0922	0.00200	"	0.100		92.2	70-130			
o-Xylene	0.0949	0.00200	"	0.100		94.9	70-130			
m,p-Xylene	0.187	0.00400	"	0.200		93.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - State 2, 7, 26-16

**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 B4G1547 - EPA 5030 (soil)

Matrix Spike (B4G1547-MS1)	Source: Y407372-01			Prepared: 07/15/2024 Analyzed: 07/15/2024						
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Benzene	0.104	0.00200	"	0.100	ND	104	70-130			
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Naphthalene	0.110	0.00380	"	0.100	ND	110	70-130			
Toluene	0.0972	0.00200	"	0.100	ND	97.2	70-130			
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130			
m,p-Xylene	0.203	0.00400	"	0.200	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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.

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - State 2, 7, 26-16

**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 B4G1547 - EPA 5030 (soil)

Matrix Spike Dup (B4G1547-MSD1)	Source: Y407372-01			Prepared: 07/15/2024 Analyzed: 07/15/2024						
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130	1.31	20	
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130	1.64	20	
Benzene	0.103	0.00200	"	0.100	ND	103	70-130	1.35	20	
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	1.22	20	
Naphthalene	0.112	0.00380	"	0.100	ND	112	70-130	2.09	20	
Toluene	0.0983	0.00200	"	0.100	ND	98.3	70-130	1.08	20	
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130	0.795	20	
m,p-Xylene	0.200	0.00400	"	0.200	ND	99.8	70-130	1.91	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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.

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - State 2, 7, 26-16

**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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B4G1538 - EPA 3050B**

**Blank (B4G1538-BLK1)**

Prepared: 07/15/2024 Analyzed: 07/16/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

**LCS (B4G1538-BS1)**

Prepared: 07/15/2024 Analyzed: 07/16/2024

Arsenic	4.69	0.290	mg/kg	5.00		93.8	80-120			
Barium	489	10.0	"	500		97.9	80-120			
Cadmium	4.89	0.100	"	5.00		97.8	80-120			
Copper	48.4	10.0	"	50.0		96.7	80-120			
Lead	4.66	1.00	"	5.00		93.2	80-120			
Nickel	4.64	1.00	"	5.00		92.8	80-120			
Selenium	4.64	0.260	"	5.00		92.7	80-120			
Silver	5.06	0.100	"	5.00		101	80-120			
Zinc	47.2	37.0	"	50.0		94.3	80-120			

**Matrix Spike (B4G1538-MS1)**

Source: Y407364-07

Prepared: 07/15/2024 Analyzed: 07/16/2024

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: [none]  
 Project: KMG - State 2, 7, 26-16

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B4G1538 - EPA 3050B**

<b>Matrix Spike (B4G1538-MS1)</b>		<b>Source: Y407364-07</b>			<b>Prepared: 07/15/2024 Analyzed: 07/16/2024</b>					
Arsenic	6.64	0.280	mg/kg	4.83	1.27	111	75-125			
Barium	557	9.67	"	483	30.2	109	75-125			
Cadmium	5.19	0.0967	"	4.83	0.0304	107	75-125			
Copper	57.4	9.67	"	48.3	2.41	114	75-125			
Lead	8.85	0.967	"	4.83	3.16	118	75-125			
Nickel	8.01	0.967	"	4.83	2.17	121	75-125			
Selenium	4.76	0.251	"	4.83	0.0390	97.6	75-125			
Silver	5.49	0.0967	"	4.83	ND	114	75-125			
Zinc	67.8	35.8	"	48.3	13.4	113	75-125			
<b>Matrix Spike Dup (B4G1538-MSD1)</b>		<b>Source: Y407364-07</b>			<b>Prepared: 07/15/2024 Analyzed: 07/16/2024</b>					
Arsenic	7.23	0.284	mg/kg	4.90	1.27	122	75-125	8.38	20	
Barium	588	9.80	"	490	30.2	114	75-125	5.34	20	
Cadmium	5.58	0.0980	"	4.90	0.0304	113	75-125	7.33	20	
Copper	63.3	9.80	"	49.0	2.41	124	75-125	9.75	20	
Lead	9.22	0.980	"	4.90	3.16	124	75-125	4.15	20	
Nickel	9.19	0.980	"	4.90	2.17	143	75-125	13.7	20	QM-07
Selenium	5.10	0.255	"	4.90	ND	104	75-125	6.91	20	
Silver	5.96	0.0980	"	4.90	ND	122	75-125	8.10	20	
Zinc	76.1	36.3	"	49.0	13.4	128	75-125	11.6	20	QM-07

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: [none]  
 Project: KMG - State 2, 7, 26-16

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B4G1537 - EPA 3580**

**Blank (B4G1537-BLK1)**

Prepared: 07/15/2024 Analyzed: 07/16/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	190		ug/kg	200		96.5	60-130			
Surrogate: Anthracene-d10	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	220		"	200		109	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.0	60-130			

**LCS (B4G1537-BS1)**

Prepared: 07/15/2024 Analyzed: 07/16/2024

1-Methylnaphthalene	0.190	0.002	mg/kg	0.200		94.9	70-130			
2-Methylnaphthalene	0.189	0.002	"	0.200		94.7	70-130			
Acenaphthene	0.192	0.020	"	0.200		96.1	70-130			
Anthracene	0.190	0.020	"	0.200		95.0	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.*

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - State 2, 7, 26-16

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B4G1537 - EPA 3580**

**LCS (B4G1537-BS1)**

Prepared: 07/15/2024 Analyzed: 07/16/2024

Benzo (a) anthracene	0.173	0.005	mg/kg	0.200		86.5	70-130			
Benzo (a) pyrene	0.189	0.020	"	0.200		94.7	70-130			
Benzo (b) fluoranthene	0.202	0.020	"	0.200		101	70-130			
Benzo (g,h,i) perylene	0.176	0.020	"	0.200		87.8	70-130			
Benzo (k) fluoranthene	0.195	0.020	"	0.200		97.7	70-130			
Chrysene	0.190	0.020	"	0.200		94.8	70-130			
Dibenz (a,h) anthracene	0.189	0.020	"	0.200		94.6	70-130			
Fluoranthene	0.195	0.020	"	0.200		97.3	70-130			
Fluorene	0.203	0.020	"	0.200		102	70-130			
Indeno (1,2,3-cd) pyrene	0.217	0.020	"	0.200		109	70-130			
Naphthalene	0.194	0.002	"	0.200		97.1	70-130			
Phenanthrene	0.209	0.020	"	0.200		104	70-130			
Pyrene	0.206	0.020	"	0.200		103	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.7	60-130			
Surrogate: Anthracene-d10	180		"	200		91.7	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.0	60-130			

**Matrix Spike (B4G1537-MS1)**

Source: Y407363-02

Prepared: 07/15/2024 Analyzed: 07/16/2024

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200	0.002	98.6	70-130			
2-Methylnaphthalene	0.200	0.002	"	0.200	0.003	98.6	70-130			
Acenaphthene	0.194	0.020	"	0.200	0.009	92.6	70-130			
Anthracene	0.203	0.020	"	0.200	0.035	84.0	70-130			
Benzo (a) anthracene	0.273	0.005	"	0.200	1.17	NR	70-130			QM-07
Benzo (a) pyrene	0.354	0.020	"	0.200	1.86	NR	70-130			QM-07
Benzo (b) fluoranthene	0.415	0.020	"	0.200	1.03	NR	70-130			QM-07
Benzo (g,h,i) perylene	0.345	0.020	"	0.200	1.51	NR	70-130			QM-07

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: [none]  
 Project: KMG - State 2, 7, 26-16

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B4G1537 - EPA 3580**

<b>Matrix Spike (B4G1537-MS1)</b>	<b>Source: Y407363-02</b>				<b>Prepared: 07/15/2024 Analyzed: 07/16/2024</b>					
Benzo (k) fluoranthene	0.384	0.020	mg/kg	0.200	0.873	NR	70-130			QM-07
Chrysene	0.306	0.020	"	0.200	1.07	NR	70-130			QM-07
Dibenz (a,h) anthracene	0.235	0.020	"	0.200	0.337	NR	70-130			QM-07
Fluoranthene	0.351	0.020	"	0.200	0.898	NR	70-130			QM-07
Fluorene	0.203	0.020	"	0.200	0.008	97.5	70-130			
Indeno (1,2,3-cd) pyrene	0.358	0.020	"	0.200	1.10	NR	70-130			QM-07
Naphthalene	0.198	0.002	"	0.200	0.002	98.4	70-130			
Phenanthrene	0.228	0.020	"	0.200	0.061	83.4	70-130			
Pyrene	0.545	0.020	"	0.200	1.88	NR	70-130			QM-07
Surrogate: Fluorene-d10	190		ug/kg	200		96.3	60-130			
Surrogate: Anthracene-d10	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.5	60-130			

<b>Matrix Spike Dup (B4G1537-MSD1)</b>	<b>Source: Y407363-02</b>				<b>Prepared: 07/15/2024 Analyzed: 07/16/2024</b>					
1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	0.002	95.5	70-130	3.16	20	
2-Methylnaphthalene	0.196	0.002	"	0.200	0.003	96.3	70-130	2.31	20	
Acenaphthene	0.189	0.020	"	0.200	0.009	89.7	70-130	2.98	20	
Anthracene	0.209	0.020	"	0.200	0.035	87.2	70-130	3.07	20	
Benzo (a) anthracene	0.314	0.005	"	0.200	1.17	NR	70-130	14.1	20	QM-07
Benzo (a) pyrene	0.312	0.020	"	0.200	1.86	NR	70-130	12.6	20	QM-07
Benzo (b) fluoranthene	0.382	0.020	"	0.200	1.03	NR	70-130	8.26	20	QM-07
Benzo (g,h,i) perylene	0.325	0.020	"	0.200	1.51	NR	70-130	6.13	20	QM-07
Benzo (k) fluoranthene	0.349	0.020	"	0.200	0.873	NR	70-130	9.57	20	QM-07
Chrysene	0.329	0.020	"	0.200	1.07	NR	70-130	7.33	20	QM-07
Dibenz (a,h) anthracene	0.221	0.020	"	0.200	0.337	NR	70-130	6.52	20	QM-07
Fluoranthene	0.416	0.020	"	0.200	0.898	NR	70-130	17.0	20	QM-07

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: [none]  
 Project: KMG - State 2, 7, 26-16

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

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

Batch B4G1537 - EPA 3580

Matrix Spike Dup (B4G1537-MSD1)	Source: Y407363-02			Prepared: 07/15/2024 Analyzed: 07/16/2024						
Fluorene	0.187	0.020	mg/kg	0.200	0.008	89.6	70-130	8.06	20	
Indeno (1,2,3-cd) pyrene	0.292	0.020	"	0.200	1.10	NR	70-130	20.4	20	QM-07, QR-02
Naphthalene	0.192	0.002	"	0.200	0.002	95.2	70-130	3.26	20	
Phenanthrene	0.236	0.020	"	0.200	0.061	87.6	70-130	3.58	20	
Pyrene	0.468	0.020	"	0.200	1.88	NR	70-130	15.3	20	QM-07
Surrogate: Fluorene-d10	190		ug/kg	200		94.8	60-130			
Surrogate: Anthracene-d10	190		"	200		97.0	60-130			
Surrogate: Pyrene-d10	220		"	200		112	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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.

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - State 2, 7, 26-16

**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 B4G1606 - DTPA Sorbitol Preparation**

**Blank (B4G1606-BLK1)** Prepared: 07/16/2024 Analyzed: 07/18/2024

Boron	ND	0.100	mg/L							
-------	----	-------	------	--	--	--	--	--	--	--

**Duplicate (B4G1606-DUP1)** Source: Y407338-01 Prepared: 07/16/2024 Analyzed: 07/18/2024

Boron	0.427	0.100	mg/L		0.582			30.6	50	
-------	-------	-------	------	--	-------	--	--	------	----	--

**Batch B4G1609 - Saturated Paste Metals**

**Blank (B4G1609-BLK1)** Prepared: 07/16/2024 Analyzed: 07/17/2024

Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

**Duplicate (B4G1609-DUP1)** Source: Y407362-04 Prepared: 07/16/2024 Analyzed: 07/17/2024

SAR	ND	0.0100	SAR		2.11				200	
Calcium PPM	19.9	10.0	mg/L		21.3			6.94	50	
Magnesium PPM	3.86	10.0	"		3.82			1.04	50	
Sodium PPM	38.2	10.0	"		40.3			5.17	50	

**Batch B4G1610 - Saturated Paste Metals**

**Blank (B4G1610-BLK1)** Prepared: 07/16/2024 Analyzed: 07/17/2024

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

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: [none]  
 Project: KMG - State 2, 7, 26-16

**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 B4G1610 - Saturated Paste Metals**

Duplicate (B4G1610-DUP1)	Source: Y407333-01			Prepared: 07/16/2024 Analyzed: 07/17/2024						
Calcium PPM	282	10.0	mg/L		293			3.76	50	
SAR	ND	0.0100	SAR		2.06				200	
Magnesium PPM	113	10.0	mg/L		117			3.78	50	
Sodium PPM	158	10.0	"		165			4.58	50	

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: [none]  
 Project: KMG - State 2, 7, 26-16

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B4G1613 - Saturated Paste pH/EC**

**Blank (B4G1613-BLK1)**

Prepared: 07/16/2024 Analyzed: 07/17/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4G1613-DUP1)**

**Source: Y407362-04**

Prepared: 07/16/2024 Analyzed: 07/17/2024

pH 8.40 pH Units 8.43 0.357 25

Specific Conductance (EC) 0.327 0.00500 mmhos/cm 0.341 4.13 25

**Batch B4G1614 - Saturated Paste pH/EC**

**Blank (B4G1614-BLK1)**

Prepared: 07/16/2024 Analyzed: 07/17/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4G1614-DUP1)**

**Source: Y407333-01**

Prepared: 07/16/2024 Analyzed: 07/17/2024

Specific Conductance (EC) 2.24 0.00500 mmhos/cm 2.31 3.27 25

pH 8.10 pH Units 8.03 0.868 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.*

Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Andy Sagen  
 Project Number: [none]  
 Project: KMG - State 2, 7, 26-16

**Total Metals 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2653034 - SW846 3060A</b>										
<b>BLANK (1205814730-BLK)</b>					Prepared: 08/14/2024 Analyzed: 08/15/2024					
Hexavalent Chromium	ND	0.319	mg/kg				-			U
<b>LCS (1205814731-BKS)</b>					Prepared: 08/14/2024 Analyzed: 08/15/2024					
Hexavalent Chromium	3.04	0.307	mg/kg	3.07		99.1	80-120			
<b>DUP (1205814732 D)</b>					Source: Y407372-01 Prepared: 08/14/2024 Analyzed: 08/15/2024					
Hexavalent Chromium	ND	0.251	mg/kg dry		<0.100		0-50	N/A	50	U
<b>MS (1205814733 S)</b>					Source: Y407372-01 Prepared: 08/14/2024 Analyzed: 08/15/2024					
Hexavalent Chromium	0.865	0.251	mg/kg dry	2.51	<0.100	32.9	75-125			
<b>DUP (1205814734 D)</b>					Source: Y407372-02 Prepared: 08/14/2024 Analyzed: 08/15/2024					
Hexavalent Chromium	ND	0.336	mg/kg dry		<0.135		0-50	N/A	50	U
<b>MS (1205814735 S)</b>					Source: Y407372-02 Prepared: 08/14/2024 Analyzed: 08/15/2024					
Hexavalent Chromium	2.75	0.337	mg/kg dry	3.37	<0.135	80	75-125			
<b>ILCS (1205814736-ILCS)</b>					Prepared: 08/14/2024 Analyzed: 08/15/2024					
Hexavalent Chromium	6.40	0.314	mg/kg	6.36		101	80-120			

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: [none]  
Project: KMG - State 2, 7, 26-16

---

**Notes and Definitions**

- Ua Sample is Non-Detect.
- U Result not detected above the detection limit
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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 on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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.*