

August 13, 2024

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - State 2,8-16

Project Number - [none]

Attached are your analytical results for KMG - State 2,8-16 received by Origins Laboratory, Inc. July 11, 2024. This project is associated with Origins project number Y407300-01.

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 2,8-16

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2-WH-B01@6'	Y407300-01	Soil	July 11, 2024 10:00	07/11/2024 16:54
2-FL-B01@4'	Y407300-02	Soil	July 11, 2024 10:20	07/11/2024 16:54
8-WH-B01@6'	Y407300-03	Soil	July 11, 2024 10:10	07/11/2024 16:54
8-FL-B01@4'	Y407300-04	Soil	July 11, 2024 10:22	07/11/2024 16:54
BG-01@3'	Y407300-05	Soil	July 11, 2024 10:32	07/11/2024 16:54
BG-01@6'	Y407300-06	Soil	July 11, 2024 10:34	07/11/2024 16:54
BG-02@3'	Y407300-07	Soil	July 11, 2024 10:36	07/11/2024 16:54
BG-02@6'	Y407300-08	Soil	July 11, 2024 10:38	07/11/2024 16:54
BG-03@3'	Y407300-09	Soil	July 11, 2024 10:40	07/11/2024 16:54
BG-03@6'	Y407300-10	Soil	July 11, 2024 10:42	07/11/2024 16:54
BG-04@3'	Y407300-11	Soil	July 11, 2024 10:44	07/11/2024 16:54
BG-04@6'	Y407300-12	Soil	July 11, 2024 10:46	07/11/2024 16:54
BG-05@3'	Y407300-13	Soil	July 11, 2024 10:48	07/11/2024 16:54
BG-05@6'	Y407300-14	Soil	July 11, 2024 10:50	07/11/2024 16:54

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 2,8-16

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG-06@3'	Y407300-15	Soil	July 11, 2024 10:52	07/11/2024 16:54
BG-06@6'	Y407300-16	Soil	July 11, 2024 10:54	07/11/2024 16:54

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4407300

Client: Tasman

Client Project ID: st 2,8-16

Checklist Completed by: EAD

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

Date/time completed: 7/11/12

Airbill #: N/A

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

Cooler Number/Temperature: 116 °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 ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>SD</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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO3, HCl, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) EAD Date/Time Reviewed 7/11/12

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

2-WH-B01@6'
7/11/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.408		0.101	mg/L	1	B4G1207	07/12/2024	07/16/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1149	07/11/2024	07/12/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	88.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1151	07/11/2024	07/11/2024	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	112 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

2-WH-B01@6'

7/11/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.8 %		70-130			B4G11 51	07/11/2024	07/11/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.797		0.499	meq/L	10	[CALC]	07/12/2024	07/16/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.633		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4G1152	07/11/2024	07/12/2024	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.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

2-WH-B01@6'
7/11/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4G1152	07/11/2024	07/12/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	105 %		60-130			"	"	"	
Surrogate: Anthracene-d10	90.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	100 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.48			pH Units	1	B4G1217	07/12/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	0.736		0.0100	SAR	1	B4G1212	07/12/2024	07/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.257		0.00500	mmhos/cm	1	B4G1217	07/12/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

2-WH-B01@6'
7/11/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	7.06		0.263	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Barium	266		9.06	"	"	"	"	"	
Cadmium	0.305		0.0906	"	"	"	"	"	
Copper	21.6		9.06	"	"	"	"	"	
Lead	13.9		0.906	"	"	"	"	"	
Nickel	19.9		0.906	"	"	"	"	"	
Selenium	0.306		0.235	"	"	"	"	"	
Silver	0.131		0.0906	"	"	"	"	"	
Zinc	71.8		33.5	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.135	0.339	mg/kg dry	1	2652471	08/09/2024	08/09/2024	U
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

2-FL-B01@4'

7/11/2024 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.333		0.101	mg/L	1	B4G1207	07/12/2024	07/16/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1149	07/11/2024	07/12/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	89.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1151	07/11/2024	07/11/2024	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			"	"	"	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

2-FL-B01@4'

7/11/2024 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.4 %		70-130			B4G11 51	07/11/2024	07/11/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.832	0.499	meq/L	10	[CALC]		07/12/2024	07/16/2024	
Magnesium	1.11	0.823	"	"	"	"	"	"	
Sodium	0.633	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1152		07/11/2024	07/12/2024	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.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

2-FL-B01@4'

7/11/2024 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4G1152	07/11/2024	07/12/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	105 %		60-130			"	"	"	
Surrogate: Anthracene-d10	90.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.55			pH Units	1	B4G1217	07/12/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	0.643		0.0100	SAR	1	B4G1212	07/12/2024	07/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.265		0.00500	mmhos/cm	1	B4G1217	07/12/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

2-FL-B01@4'

7/11/2024 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	7.18		0.279	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Barium	259		9.63	"	"	"	"	"	
Cadmium	0.270		0.0963	"	"	"	"	"	
Copper	21.0		9.63	"	"	"	"	"	
Lead	14.5		0.963	"	"	"	"	"	
Nickel	21.0		0.963	"	"	"	"	"	
Selenium	ND		0.250	"	"	"	"	"	
Silver	ND		0.0963	"	"	"	"	"	
Zinc	73.5		35.6	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.247	0.146	0.365	mg/kg dry	1	2652471	08/09/2024	08/09/2024	J
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

8-WH-B01@6'

7/11/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.437		0.101	mg/L	1	B4G1207	07/12/2024	07/16/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1149	07/11/2024	07/12/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	89.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1151	07/11/2024	07/11/2024	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			"	"	"	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

8-WH-B01@6'

7/11/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.4 %		70-130			B4G11 51	07/11/2024	07/11/2024	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.20		0.499	meq/L	10	[CALC]	07/12/2024	07/16/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.619		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4G1152	07/11/2024	07/12/2024	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 2,8-16

8-WH-B01@6'

7/11/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-03 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4G1152	07/11/2024	07/12/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	105 %		60-130			"	"	"	
Surrogate: Anthracene-d10	89.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.50			pH Units	1	B4G1217	07/12/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	0.630		0.0100	SAR	1	B4G1212	07/12/2024	07/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.253		0.00500	mmhos/cm	1	B4G1217	07/12/2024	07/12/2024	
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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 2,8-16

8-WH-B01@6'

7/11/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	8.30		0.269	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Barium	200		9.28	"	"	"	"	"	
Cadmium	0.259		0.0928	"	"	"	"	"	
Copper	20.9		9.28	"	"	"	"	"	
Lead	15.0		0.928	"	"	"	"	"	
Nickel	23.8		0.928	"	"	"	"	"	
Selenium	0.302		0.241	"	"	"	"	"	
Silver	ND		0.0928	"	"	"	"	"	
Zinc	82.2		34.3	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.284	0.167	0.418	mg/kg dry	1	2652471	08/09/2024	08/09/2024	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

8-FL-B01@4'

7/11/2024 10:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.536		0.101	mg/L	1	B4G1207	07/12/2024	07/16/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1149	07/11/2024	07/12/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	90.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1151	07/11/2024	07/11/2024	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			"	"	"	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

8-FL-B01@4'

7/11/2024 10:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.5 %		70-130			B4G11 51	07/11/2024	07/11/2024	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.34		0.499	meq/L	10	[CALC]	07/12/2024	07/16/2024	
Magnesium	1.04		0.823	"	"	"	"	"	
Sodium	1.18		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4G1152	07/11/2024	07/12/2024	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 2,8-16

8-FL-B01@4'

7/11/2024 10:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-04 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4G1152	07/11/2024	07/12/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	104 %		60-130			"	"	"	
Surrogate: Anthracene-d10	90.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.34			pH Units	1	B4G1217	07/12/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	1.09		0.0100	SAR	1	B4G1212	07/12/2024	07/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.390		0.00500	mmhos/cm	1	B4G1217	07/12/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

8-FL-B01@4'

7/11/2024 10:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y407300-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	7.20		0.280	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Barium	225		9.65	"	"	"	"	"	
Cadmium	0.289		0.0965	"	"	"	"	"	
Copper	23.3		9.65	"	"	"	"	"	
Lead	16.2		0.965	"	"	"	"	"	
Nickel	20.0		0.965	"	"	"	"	"	
Selenium	0.319		0.251	"	"	"	"	"	
Silver	0.101		0.0965	"	"	"	"	"	
Zinc	76.8		35.7	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.257	0.180	0.451	mg/kg dry	1	2652471	08/09/2024	08/09/2024	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

BG-01@3'

7/11/2024 10:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.435		0.0999	mg/L	1	B4G1207	07/12/2024	07/16/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	4.16		0.499	meq/L	10	[CALC]	07/12/2024	07/16/2024	
Magnesium	5.69		0.823	"	"	"	"	"	
Sodium	17.4		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.44			pH Units	1	B4G1217	07/12/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	7.85		0.0100	SAR	1	B4G1212	07/12/2024	07/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.49		0.00500	mmhos/cm	1	B4G1217	07/12/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	6.29		0.274	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Barium	184		9.44	"	"	"	"	"	
Cadmium	0.224		0.0944	"	"	"	"	"	
Copper	18.1		9.44	"	"	"	"	"	

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 2,8-16

BG-01@3'

7/11/2024 10:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-05 (Soil)

Table 915 metals by EPA 6020B

Lead	12.9		0.944	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Nickel	18.9		0.944	"	"	"	"	"	
Selenium	0.274		0.245	"	"	"	"	"	
Silver	ND		0.0944	"	"	"	"	"	
Zinc	66.4		34.9	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.166	0.415	mg/kg dry	1	2652471	08/09/2024	08/09/2024	U
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

BG-01@6'

7/11/2024 10:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-06 (Soil)

Boron (DTPA Sorbitol)

Boron	2.13		0.101	mg/L	1	B4G1207	07/12/2024	07/16/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	7.81		0.499	meq/L	10	[CALC]	07/12/2024	07/16/2024	
Magnesium	13.0		0.823	"	"	"	"	"	
Sodium	29.5		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.31			pH Units	1	B4G1217	07/12/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	9.13		0.0100	SAR	1	B4G1212	07/12/2024	07/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.16		0.00500	mmhos/cm	1	B4G1217	07/12/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	7.81		0.276	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Barium	297		9.52	"	"	"	"	"	
Cadmium	0.246		0.0952	"	"	"	"	"	
Copper	19.3		9.52	"	"	"	"	"	

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 2,8-16

BG-01@6'

7/11/2024 10:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-06 (Soil)

Table 915 metals by EPA 6020B

Lead	15.2		0.952	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Nickel	22.0		0.952	"	"	"	"	"	
Selenium	0.377		0.247	"	"	"	"	"	
Silver	ND		0.0952	"	"	"	"	"	
Zinc	76.6		35.2	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.153	0.133	0.332	mg/kg dry	1	2652471	08/09/2024	08/09/2024	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

BG-02@3'

7/11/2024 10:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.700		0.0992	mg/L	1	B4G1207	07/12/2024	07/16/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.10		0.499	meq/L	10	[CALC]	07/12/2024	07/16/2024	
Magnesium	2.62		0.823	"	"	"	"	"	
Sodium	8.40		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.53			pH Units	1	B4G1218	07/12/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	6.16		0.0100	SAR	1	B4G1213	07/12/2024	07/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.29		0.00500	mmhos/cm	1	B4G1218	07/12/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	6.19		0.276	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Barium	255		9.51	"	"	"	"	"	
Cadmium	0.216		0.0951	"	"	"	"	"	
Copper	15.3		9.51	"	"	"	"	"	

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 2,8-16

BG-02@3'

7/11/2024 10:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-07 (Soil)

Table 915 metals by EPA 6020B

Lead	11.3		0.951	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Nickel	17.0		0.951	"	"	"	"	"	
Selenium	ND		0.247	"	"	"	"	"	
Silver	ND		0.0951	"	"	"	"	"	
Zinc	60.1		35.2	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.307	0.181	0.452	mg/kg dry	1	2652471	08/09/2024	08/09/2024	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

BG-02@6'

7/11/2024 10:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-08 (Soil)

Boron (DTPA Sorbitol)

Boron	2.87		0.0992	mg/L	1	B4G1208	07/12/2024	07/16/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	4.39		0.499	meq/L	10	[CALC]	07/12/2024	07/16/2024	
Magnesium	8.42		0.823	"	"	"	"	"	
Sodium	20.3		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.38			pH Units	1	B4G1218	07/12/2024	07/12/2024	
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SAR by 20B Saturated Paste

SAR	8.03		0.0100	SAR	1	B4G1213	07/12/2024	07/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.89		0.00500	mmhos/cm	1	B4G1218	07/12/2024	07/12/2024	
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Table 915 metals by EPA 6020B

Arsenic	8.86		0.279	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Barium	169		9.63	"	"	"	"	"	
Cadmium	0.242		0.0963	"	"	"	"	"	
Copper	19.5		9.63	"	"	"	"	"	

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 2,8-16

BG-02@6'

7/11/2024 10:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-08 (Soil)

Table 915 metals by EPA 6020B

Lead	14.9		0.963	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Nickel	21.6		0.963	"	"	"	"	"	
Selenium	0.344		0.250	"	"	"	"	"	
Silver	ND		0.0963	"	"	"	"	"	
Zinc	75.1		35.6	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.209	0.182	0.454	mg/kg dry	1	2652471	08/09/2024	08/09/2024	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

BG-03@3'

7/11/2024 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.909		0.101	mg/L	1	B4G1208	07/12/2024	07/16/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	4.02		0.499	meq/L	10	[CALC]	07/12/2024	07/16/2024	
Magnesium	8.53		0.823	"	"	"	"	"	
Sodium	17.2		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.29			pH Units	1	B4G1218	07/12/2024	07/13/2024	
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SAR by 20B Saturated Paste

SAR	6.86		0.0100	SAR	1	B4G1213	07/12/2024	07/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.82		0.00500	mmhos/cm	1	B4G1218	07/12/2024	07/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.83		0.252	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Barium	167		8.70	"	"	"	"	"	
Cadmium	0.189		0.0870	"	"	"	"	"	
Copper	18.0		8.70	"	"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

BG-03@3'

7/11/2024 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-09 (Soil)

Table 915 metals by EPA 6020B

Lead	12.3		0.870	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Nickel	19.1		0.870	"	"	"	"	"	
Selenium	0.257		0.226	"	"	"	"	"	
Silver	ND		0.0870	"	"	"	"	"	
Zinc	63.9		32.2	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.257	0.151	0.379	mg/kg dry	1	2652471	08/09/2024	08/09/2024	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

BG-03@6'

7/11/2024 10:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-10 (Soil)

Boron (DTPA Sorbitol)

Boron	2.31		0.101	mg/L	1	B4G1208	07/12/2024	07/16/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	7.64		0.499	meq/L	10	[CALC]	07/12/2024	07/16/2024	
Magnesium	13.7		0.823	"	"	"	"	"	
Sodium	23.0		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.29			pH Units	1	B4G1218	07/12/2024	07/13/2024	
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SAR by 20B Saturated Paste

SAR	7.04		0.0100	SAR	1	B4G1213	07/12/2024	07/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.93		0.00500	mmhos/cm	1	B4G1218	07/12/2024	07/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	7.75		0.251	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Barium	238		8.65	"	"	"	"	"	
Cadmium	0.208		0.0865	"	"	"	"	"	
Copper	18.1		8.65	"	"	"	"	"	

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 2,8-16

BG-03@6'

7/11/2024 10:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-10 (Soil)

Table 915 metals by EPA 6020B

Lead	14.0		0.865	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Nickel	21.8		0.865	"	"	"	"	"	
Selenium	0.287		0.225	"	"	"	"	"	
Silver	ND		0.0865	"	"	"	"	"	
Zinc	73.0		32.0	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.408	0.207	0.518	mg/kg dry	1	2652471	08/09/2024	08/09/2024	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

BG-04@3'

7/11/2024 10:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.680		0.100	mg/L	1	B4G1208	07/12/2024	07/16/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	4.66		0.499	meq/L	10	[CALC]	07/12/2024	07/16/2024	
Magnesium	4.29		0.823	"	"	"	"	"	
Sodium	9.69		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.28			pH Units	1	B4G1218	07/12/2024	07/13/2024	
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SAR by 20B Saturated Paste

SAR	4.58		0.0100	SAR	1	B4G1213	07/12/2024	07/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.85		0.00500	mmhos/cm	1	B4G1218	07/12/2024	07/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.91		0.247	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Barium	204		8.53	"	"	"	"	"	
Cadmium	0.224		0.0853	"	"	"	"	"	
Copper	18.6		8.53	"	"	"	"	"	

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 2,8-16

BG-04@3'

7/11/2024 10:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-11 (Soil)

Table 915 metals by EPA 6020B

Lead	12.2		0.853	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Nickel	18.2		0.853	"	"	"	"	"	
Selenium	0.246		0.222	"	"	"	"	"	
Silver	ND		0.0853	"	"	"	"	"	
Zinc	66.4		31.5	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.294	0.173	0.433	mg/kg dry	1	2652471	08/09/2024	08/09/2024	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

BG-04@6'

7/11/2024 10:46:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-12 (Soil)

Boron (DTPA Sorbitol)

Boron	1.90		0.0999	mg/L	1	B4G1208	07/12/2024	07/16/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.903		0.499	meq/L	10	[CALC]	07/12/2024	07/16/2024	
Magnesium	1.67		0.823	"	"	"	"	"	
Sodium	9.17		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.56			pH Units	1	B4G1218	07/12/2024	07/13/2024	
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SAR by 20B Saturated Paste

SAR	8.08		0.0100	SAR	1	B4G1213	07/12/2024	07/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.28		0.00500	mmhos/cm	1	B4G1218	07/12/2024	07/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	6.41		0.266	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Barium	183		9.16	"	"	"	"	"	
Cadmium	0.199		0.0916	"	"	"	"	"	
Copper	16.3		9.16	"	"	"	"	"	

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 2,8-16

BG-04@6'

7/11/2024 10:46:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-12 (Soil)

Table 915 metals by EPA 6020B

Lead	12.4		0.916	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Nickel	18.1		0.916	"	"	"	"	"	
Selenium	0.307		0.238	"	"	"	"	"	
Silver	ND		0.0916	"	"	"	"	"	
Zinc	66.1		33.9	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.272	0.160	0.401	mg/kg dry	1	2652471	08/09/2024	08/09/2024	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

BG-05@3'

7/11/2024 10:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-13 (Soil)

Boron (DTPA Sorbitol)

Boron	0.814		0.0981	mg/L	1	B4G1208	07/12/2024	07/16/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	5.71		0.499	meq/L	10	[CALC]	07/12/2024	07/16/2024	
Magnesium	7.27		0.823	"	"	"	"	"	
Sodium	11.4		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.38			pH Units	1	B4G1218	07/12/2024	07/13/2024	
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SAR by 20B Saturated Paste

SAR	4.46		0.0100	SAR	1	B4G1213	07/12/2024	07/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.18		0.00500	mmhos/cm	1	B4G1218	07/12/2024	07/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.80		0.253	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Barium	189		8.73	"	"	"	"	"	
Cadmium	0.189		0.0873	"	"	"	"	"	
Copper	13.9		8.73	"	"	"	"	"	

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 2,8-16

BG-05@3'

7/11/2024 10:48:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-13 (Soil)

Table 915 metals by EPA 6020B

Lead	10.3		0.873	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Nickel	14.3		0.873	"	"	"	"	"	
Selenium	0.505		0.227	"	"	"	"	"	
Silver	ND		0.0873	"	"	"	"	"	
Zinc	49.4		32.3	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.198	0.139	0.348	mg/kg dry	1	2652471	08/09/2024	08/09/2024	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

BG-05@6'

7/11/2024 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-14 (Soil)

Boron (DTPA Sorbitol)

Boron	1.37		0.100	mg/L	1	B4G1208	07/12/2024	07/16/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	20.8		0.499	meq/L	10	[CALC]	07/12/2024	07/16/2024	
Magnesium	29.9		0.823	"	"	"	"	"	
Sodium	36.9		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.14			pH Units	1	B4G1218	07/12/2024	07/13/2024	
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SAR by 20B Saturated Paste

SAR	7.32		0.0100	SAR	1	B4G1213	07/12/2024	07/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.42		0.00500	mmhos/cm	1	B4G1218	07/12/2024	07/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.31		0.260	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Barium	173		8.96	"	"	"	"	"	
Cadmium	0.176		0.0896	"	"	"	"	"	
Copper	15.2		8.96	"	"	"	"	"	

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 2,8-16

BG-05@6'

7/11/2024 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-14 (Soil)

Table 915 metals by EPA 6020B

Lead	11.2		0.896	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Nickel	15.7		0.896	"	"	"	"	"	
Selenium	0.277		0.233	"	"	"	"	"	
Silver	ND		0.0896	"	"	"	"	"	
Zinc	55.9		33.2	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.207	0.146	0.364	mg/kg dry	1	2652471	08/09/2024	08/09/2024	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

BG-06@3'

7/11/2024 10:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-15 (Soil)

Boron (DTPA Sorbitol)

Boron	1.17		0.101	mg/L	1	B4G1208	07/12/2024	07/16/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	3.35		0.499	meq/L	10	[CALC]	07/12/2024	07/16/2024	
Magnesium	6.67		0.823	"	"	"	"	"	
Sodium	13.9		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.42			pH Units	1	B4G1218	07/12/2024	07/13/2024	
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SAR by 20B Saturated Paste

SAR	6.22		0.0100	SAR	1	B4G1213	07/12/2024	07/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.40		0.00500	mmhos/cm	1	B4G1218	07/12/2024	07/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.16		0.269	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Barium	539		9.26	"	"	"	"	"	
Cadmium	0.179		0.0926	"	"	"	"	"	
Copper	15.2		9.26	"	"	"	"	"	

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 2,8-16

BG-06@3'

7/11/2024 10:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-15 (Soil)

Table 915 metals by EPA 6020B

Lead	12.4		0.926	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Nickel	16.4		0.926	"	"	"	"	"	
Selenium	0.254		0.241	"	"	"	"	"	
Silver	ND		0.0926	"	"	"	"	"	
Zinc	56.3		34.3	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.224	0.132	0.331	mg/kg dry	1	2652471	08/09/2024	08/09/2024	J
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

BG-06@6'

7/11/2024 10:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-16 (Soil)

Boron (DTPA Sorbitol)

Boron	1.70		0.0983	mg/L	1	B4G1208	07/12/2024	07/16/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.48		0.499	meq/L	10	[CALC]	07/12/2024	07/16/2024	
Magnesium	3.93		0.823	"	"	"	"	"	
Sodium	15.9		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.63			pH Units	1	B4G1218	07/12/2024	07/13/2024	
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SAR by 20B Saturated Paste

SAR	9.67		0.0100	SAR	1	B4G1213	07/12/2024	07/16/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.15		0.00500	mmhos/cm	1	B4G1218	07/12/2024	07/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.58		0.252	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Barium	175		8.70	"	"	"	"	"	
Cadmium	0.176		0.0870	"	"	"	"	"	
Copper	15.5		8.70	"	"	"	"	"	

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

BG-06@6'

7/11/2024 10:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407300-16 (Soil)

Table 915 metals by EPA 6020B

Lead	11.4		0.870	mg/kg	10	B4G1150	07/11/2024	07/12/2024	
Nickel	15.9		0.870	"	"	"	"	"	
Selenium	ND		0.226	"	"	"	"	"	
Silver	ND		0.0870	"	"	"	"	"	
Zinc	54.4		32.2	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.154	0.384	mg/kg dry	1	2652471	08/09/2024	08/09/2024	U
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

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 B4G1149 - EPA 3550B										
Blank (B4G1149-BLK1)										
					Prepared: 07/11/2024 Analyzed: 07/11/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	24		"	24.9		97.0	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

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
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Batch B4G1149 - EPA 3550B

LCS (B4G1149-BS1)

Prepared: 07/11/2024 Analyzed: 07/11/2024

Diesel (C10-C28)	854	50.0	mg/kg	1000		85.4	70-130			
Residual Range Organics (C28-C40)	900	200	"	1000		90.0	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.2	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

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 B4G1149 - EPA 3550B										
Matrix Spike (B4G1149-MS1)		Source: Y407294-01			Prepared: 07/11/2024 Analyzed: 07/11/2024					
Diesel (C10-C28)	837	50.0	mg/kg	1000	ND	83.7	70-130			
Residual Range Organics (C28-C40)	874	200	"	1000	ND	87.4	70-130			
Surrogate: o-Terphenyl	41		"	49.8		83.2	50-150			

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Tasman Geosciences
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Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

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 B4G1149 - EPA 3550B										
Matrix Spike Dup (B4G1149-MSD1)		Source: Y407294-01			Prepared: 07/11/2024 Analyzed: 07/11/2024					
Diesel (C10-C28)	851	50.0	mg/kg	1000	ND	85.1	70-130	1.65	35	
Residual Range Organics (C28-C40)	858	200	"	1000	ND	85.8	70-130	1.90	35	
Surrogate: o-Terphenyl	42		"	49.8		83.6	50-150			

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Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

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
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Batch B4G1151 - EPA 5030 (soil)

Blank (B4G1151-BLK1)

Prepared: 07/11/2024 Analyzed: 07/11/2024

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		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

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
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Batch B4G1151 - EPA 5030 (soil)

LCS (B4G1151-BS1)

Prepared: 07/11/2024 Analyzed: 07/11/2024

1,2,4-Trimethylbenzene	0.0962	0.00200	mg/kg	0.100		96.2	70-130			
1,3,5-Trimethylbenzene	0.0986	0.00200	"	0.100		98.6	70-130			
Benzene	0.0869	0.00200	"	0.100		86.9	70-130			
Ethylbenzene	0.0945	0.00200	"	0.100		94.5	70-130			
Naphthalene	0.103	0.00380	"	0.100		103	70-130			
Toluene	0.0892	0.00200	"	0.100		89.2	70-130			
o-Xylene	0.0964	0.00200	"	0.100		96.4	70-130			
m,p-Xylene	0.189	0.00400	"	0.200		94.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

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
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Batch B4G1151 - EPA 5030 (soil)

Matrix Spike (B4G1151-MS1)	Source: Y407300-01			Prepared: 07/11/2024 Analyzed: 07/12/2024						
1,2,4-Trimethylbenzene	0.0963	0.00200	mg/kg	0.100	ND	96.3	70-130			
1,3,5-Trimethylbenzene	0.0967	0.00200	"	0.100	ND	96.7	70-130			
Benzene	0.0878	0.00200	"	0.100	ND	87.8	70-130			
Ethylbenzene	0.0921	0.00200	"	0.100	ND	92.1	70-130			
Naphthalene	0.114	0.00380	"	0.100	ND	114	70-130			
Toluene	0.0887	0.00200	"	0.100	ND	88.7	70-130			
o-Xylene	0.0964	0.00200	"	0.100	ND	96.4	70-130			
m,p-Xylene	0.184	0.00400	"	0.200	ND	92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

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
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Batch B4G1151 - EPA 5030 (soil)

Matrix Spike Dup (B4G1151-MSD1)	Source: Y407300-01			Prepared: 07/11/2024 Analyzed: 07/12/2024						
1,2,4-Trimethylbenzene	0.0433	0.00200	mg/kg	0.0500	ND	86.5	70-130	76.0	20	QR-02
1,3,5-Trimethylbenzene	0.0425	0.00200	"	0.0500	ND	85.0	70-130	77.9	20	QR-02
Benzene	0.0437	0.00200	"	0.0500	ND	87.5	70-130	67.0	20	QR-02
Ethylbenzene	0.0450	0.00200	"	0.0500	ND	90.0	70-130	68.8	20	QR-02
Naphthalene	0.0513	0.00380	"	0.0500	ND	103	70-130	76.1	20	QR-02
Toluene	0.0432	0.00200	"	0.0500	ND	86.4	70-130	69.0	20	QR-02
o-Xylene	0.0463	0.00200	"	0.0500	ND	92.7	70-130	70.1	20	QR-02
m,p-Xylene	0.0887	0.00400	"	0.100	ND	88.7	70-130	70.1	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

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
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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
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Batch B4G1150 - EPA 3050B

Blank (B4G1150-BLK1)

Prepared: 07/11/2024 Analyzed: 07/12/2024

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 (B4G1150-BS1)

Prepared: 07/11/2024 Analyzed: 07/12/2024

Arsenic	5.33	0.290	mg/kg	5.00		107	80-120			
Barium	524	10.0	"	500		105	80-120			
Cadmium	5.51	0.100	"	5.00		110	80-120			
Copper	55.7	10.0	"	50.0		111	80-120			
Lead	5.25	1.00	"	5.00		105	80-120			
Nickel	5.59	1.00	"	5.00		112	80-120			
Selenium	5.31	0.260	"	5.00		106	80-120			
Silver	5.42	0.100	"	5.00		108	80-120			
Zinc	53.8	37.0	"	50.0		108	80-120			

Matrix Spike (B4G1150-MS1)

Source: Y407300-10

Prepared: 07/11/2024 Analyzed: 07/12/2024

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

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
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Batch B4G1150 - EPA 3050B

Matrix Spike (B4G1150-MS1)		Source: Y407300-10			Prepared: 07/11/2024 Analyzed: 07/12/2024					
Arsenic	12.7	0.278	mg/kg	4.79	7.75	104	75-125			
Barium	751	9.59	"	479	238	107	75-125			
Cadmium	5.46	0.0959	"	4.79	0.208	110	75-125			
Copper	69.5	9.59	"	47.9	18.1	107	75-125			
Lead	18.6	0.959	"	4.79	14.0	95.1	75-125			
Nickel	25.0	0.959	"	4.79	21.8	67.4	75-125			QM-07
Selenium	5.04	0.249	"	4.79	0.287	99.2	75-125			
Silver	5.08	0.0959	"	4.79	0.0649	105	75-125			
Zinc	120	35.5	"	47.9	73.0	97.0	75-125			

Matrix Spike Dup (B4G1150-MSD1)		Source: Y407300-10			Prepared: 07/11/2024 Analyzed: 07/12/2024					
Arsenic	12.3	0.254	mg/kg	4.38	7.75	105	75-125	3.29	20	
Barium	716	8.75	"	438	238	109	75-125	4.85	20	
Cadmium	5.11	0.0875	"	4.38	0.208	112	75-125	6.62	20	
Copper	65.6	8.75	"	43.8	18.1	109	75-125	5.76	20	
Lead	18.6	0.875	"	4.38	14.0	104	75-125	0.0906	20	
Nickel	25.0	0.875	"	4.38	21.8	74.5	75-125	0.114	20	QM-07
Selenium	4.87	0.228	"	4.38	0.287	105	75-125	3.50	20	
Silver	4.74	0.0875	"	4.38	0.0649	107	75-125	6.95	20	
Zinc	116	32.4	"	43.8	73.0	99.0	75-125	2.70	20	

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

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
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Batch B4G1152 - EPA 3580

Blank (B4G1152-BLK1)

Prepared: 07/11/2024 Analyzed: 07/12/2024

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	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	180		"	200		88.7	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.6	60-130			

LCS (B4G1152-BS1)

Prepared: 07/11/2024 Analyzed: 07/12/2024

1-Methylnaphthalene	0.191	0.002	mg/kg	0.200		95.4	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200		95.1	70-130			
Acenaphthene	0.201	0.020	"	0.200		101	70-130			
Anthracene	0.173	0.020	"	0.200		86.7	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

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
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Batch B4G1152 - EPA 3580

LCS (B4G1152-BS1)

Prepared: 07/11/2024 Analyzed: 07/12/2024

Benzo (a) anthracene	0.189	0.005	mg/kg	0.200		94.4	70-130			
Benzo (a) pyrene	0.207	0.020	"	0.200		104	70-130			
Benzo (b) fluoranthene	0.200	0.020	"	0.200		100	70-130			
Benzo (g,h,i) perylene	0.190	0.020	"	0.200		95.2	70-130			
Benzo (k) fluoranthene	0.195	0.020	"	0.200		97.4	70-130			
Chrysene	0.194	0.020	"	0.200		96.8	70-130			
Dibenz (a,h) anthracene	0.179	0.020	"	0.200		89.5	70-130			
Fluoranthene	0.184	0.020	"	0.200		91.9	70-130			
Fluorene	0.216	0.020	"	0.200		108	70-130			
Indeno (1,2,3-cd) pyrene	0.188	0.020	"	0.200		94.2	70-130			
Naphthalene	0.206	0.002	"	0.200		103	70-130			
Phenanthrene	0.180	0.020	"	0.200		89.9	70-130			
Pyrene	0.193	0.020	"	0.200		96.6	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	180		"	200		88.1	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B4G1152-MS1)

Source: Y407300-01

Prepared: 07/11/2024 Analyzed: 07/12/2024

1-Methylnaphthalene	0.196	0.002	mg/kg	0.200	ND	98.1	70-130			
2-Methylnaphthalene	0.194	0.002	"	0.200	ND	97.2	70-130			
Acenaphthene	0.206	0.020	"	0.200	ND	103	70-130			
Anthracene	0.177	0.020	"	0.200	0.001	87.8	70-130			
Benzo (a) anthracene	0.197	0.005	"	0.200	0.0006	98.0	70-130			
Benzo (a) pyrene	0.199	0.020	"	0.200	ND	99.7	70-130			
Benzo (b) fluoranthene	0.200	0.020	"	0.200	0.0008	99.5	70-130			
Benzo (g,h,i) perylene	0.194	0.020	"	0.200	0.0008	96.7	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

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
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Batch B4G1152 - EPA 3580

Matrix Spike (B4G1152-MS1)		Source: Y407300-01			Prepared: 07/11/2024 Analyzed: 07/12/2024					
Benzo (k) fluoranthene	0.207	0.020	mg/kg	0.200	0.0004	103	70-130			
Chrysene	0.200	0.020	"	0.200	0.001	99.4	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	0.001	97.4	70-130			
Fluoranthene	0.193	0.020	"	0.200	0.0005	96.0	70-130			
Fluorene	0.220	0.020	"	0.200	ND	110	70-130			
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200	0.001	97.9	70-130			
Naphthalene	0.207	0.002	"	0.200	ND	103	70-130			
Phenanthrene	0.184	0.020	"	0.200	ND	92.1	70-130			
Pyrene	0.191	0.020	"	0.200	0.0008	95.3	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	180		"	200		89.5	60-130			
Surrogate: Pyrene-d10	200		"	200		99.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.0	60-130			

Matrix Spike Dup (B4G1152-MSD1)		Source: Y407300-01			Prepared: 07/11/2024 Analyzed: 07/12/2024					
1-Methylnaphthalene	0.191	0.002	mg/kg	0.200	ND	95.6	70-130	2.61	20	
2-Methylnaphthalene	0.190	0.002	"	0.200	ND	95.0	70-130	2.30	20	
Acenaphthene	0.202	0.020	"	0.200	ND	101	70-130	1.57	20	
Anthracene	0.178	0.020	"	0.200	0.001	88.0	70-130	0.228	20	
Benzo (a) anthracene	0.178	0.005	"	0.200	0.0006	88.6	70-130	10.1	20	
Benzo (a) pyrene	0.197	0.020	"	0.200	ND	98.7	70-130	1.03	20	
Benzo (b) fluoranthene	0.198	0.020	"	0.200	0.0008	98.9	70-130	0.641	20	
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	0.0008	95.0	70-130	1.70	20	
Benzo (k) fluoranthene	0.201	0.020	"	0.200	0.0004	100	70-130	2.75	20	
Chrysene	0.192	0.020	"	0.200	0.001	95.3	70-130	4.22	20	
Dibenz (a,h) anthracene	0.189	0.020	"	0.200	0.001	93.8	70-130	3.70	20	
Fluoranthene	0.191	0.020	"	0.200	0.0005	95.4	70-130	0.636	20	

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Andy Sagen
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 Project: KMG - State 2,8-16

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
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Batch B4G1152 - EPA 3580

Matrix Spike Dup (B4G1152-MSD1)	Source: Y407300-01			Prepared: 07/11/2024 Analyzed: 07/12/2024						
Fluorene	0.213	0.020	mg/kg	0.200	ND	107	70-130	3.07	20	
Indeno (1,2,3-cd) pyrene	0.186	0.020	"	0.200	0.001	92.5	70-130	5.64	20	
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130	2.20	20	
Phenanthrene	0.182	0.020	"	0.200	ND	91.0	70-130	1.27	20	
Pyrene	0.174	0.020	"	0.200	0.0008	86.5	70-130	9.62	20	
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	180		"	200		89.9	60-130			
Surrogate: Pyrene-d10	180		"	200		91.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.8	60-130			

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 Project Number: [none]
 Project: KMG - State 2,8-16

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 B4G1207 - DTPA Sorbitol Preparation										
Blank (B4G1207-BLK1)					Prepared: 07/12/2024 Analyzed: 07/16/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4G1207-DUP1)		Source: Y407298-03			Prepared: 07/12/2024 Analyzed: 07/16/2024					
Boron	0.844	0.101	mg/L		0.811			4.02	50	
Batch B4G1208 - DTPA Sorbitol Preparation										
Blank (B4G1208-BLK1)					Prepared: 07/12/2024 Analyzed: 07/16/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4G1208-DUP1)		Source: Y407251-01			Prepared: 07/12/2024 Analyzed: 07/16/2024					
Boron	0.327	0.100	mg/L		0.326			0.274	50	
Batch B4G1212 - Saturated Paste Metals										
Blank (B4G1212-BLK1)					Prepared: 07/12/2024 Analyzed: 07/16/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
Duplicate (B4G1212-DUP1)		Source: Y407298-02			Prepared: 07/12/2024 Analyzed: 07/16/2024					
SAR	ND	0.0100	SAR		0.0428				200	
Calcium PPM	33.5	10.0	mg/L		53.3			45.5	50	
Magnesium PPM	4.66	10.0	"		8.17			54.7	50	QR-DUP
Sodium PPM	0.710	10.0	"		1.27			56.6	50	QR-DUP

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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G1213 - Saturated Paste Metals

Blank (B4G1213-BLK1) Prepared: 07/12/2024 Analyzed: 07/16/2024

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 (B4G1213-DUP1) Prepared: 07/12/2024 Analyzed: 07/16/2024
Source: Y407272-01

Calcium PPM	30.0	10.0	mg/L		32.1			6.71	50	
SAR	ND	0.0100	SAR		0.311				200	
Magnesium PPM	5.23	10.0	mg/L		6.26			17.9	50	
Sodium PPM	5.90	10.0	"		7.35			21.9	50	

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Tasman Geosciences
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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G1217 - Saturated Paste pH/EC

Blank (B4G1217-BLK1)

Prepared: 07/12/2024 Analyzed: 07/12/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4G1217-DUP1)

Source: Y407298-02

Prepared: 07/12/2024 Analyzed: 07/12/2024

pH 8.25 pH Units 8.14 1.34 25

Specific Conductance (EC) 0.318 0.00500 mmhos/cm 0.464 37.2 25

Batch B4G1218 - Saturated Paste pH/EC

Blank (B4G1218-BLK1)

Prepared: 07/12/2024 Analyzed: 07/13/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4G1218-DUP1)

Source: Y407272-01

Prepared: 07/12/2024 Analyzed: 07/12/2024

pH 8.24 pH Units 8.24 0.00 25

Specific Conductance (EC) 0.261 0.00500 mmhos/cm 0.295 12.2 25

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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2,8-16

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2652471 - SW846 3060A										
BLANK (1205813672-BLK)					Prepared: 08/09/2024 Analyzed: 08/09/2024					
Hexavalent Chromium	ND	0.376	mg/kg				-			U
LCS (1205813673-BKS)					Prepared: 08/09/2024 Analyzed: 08/09/2024					
Hexavalent Chromium	3.82	0.378	mg/kg	3.78		101	80-120			
DUP (1205813674 D)					Source: Y407300-01 Prepared: 08/09/2024 Analyzed: 08/09/2024					
Hexavalent Chromium	ND	0.339	mg/kg dry		<0.136		0-50	N/A	50	U
MS (1205813675 S)					Source: Y407300-01 Prepared: 08/09/2024 Analyzed: 08/09/2024					
Hexavalent Chromium	3.01	0.339	mg/kg dry	3.39	<0.136	85.4	75-125			
DUP (1205813676 D)					Source: Y407300-02 Prepared: 08/09/2024 Analyzed: 08/09/2024					
Hexavalent Chromium	0.168	0.366	mg/kg dry		0.247		0-50	38.1	50	J
MS (1205813677 S)					Source: Y407300-02 Prepared: 08/09/2024 Analyzed: 08/09/2024					
Hexavalent Chromium	3.37	0.366	mg/kg dry	3.66	0.247	85.4	75-125			
ILCS (1205813678-ILCS)					Prepared: 08/09/2024 Analyzed: 08/09/2024					
Hexavalent Chromium	7.36	0.365	mg/kg	7.52		97.9	80-120			

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Andy Sagen
Project Number: [none]
Project: KMG - State 2,8-16

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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.

J Greater than the detection limit but less than the reporting limit

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.

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