



November 30, 2023

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Bryant 16,23,36-30

Project Number - [none]

Attached are your analytical results for KMG - Bryant 16,23,36-30 received by Origins Laboratory, Inc. November 14, 2023. This project is associated with Origins project number Y311348-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
16-FL-B03@4'	Y311348-01	Soil	November 14, 2023 11:28	11/14/2023 15:32
23-FL-B03@4'	Y311348-02	Soil	November 14, 2023 11:30	11/14/2023 15:32
36-FL-B03@4'	Y311348-03	Soil	November 14, 2023 11:32	11/14/2023 15:32
34-FL-B01@4'	Y311348-04	Soil	November 14, 2023 11:34	11/14/2023 15:32

Origins Laboratory, Inc.



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ORIGINS LABORATORY, INC

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

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

Sample Receipt Checklist

Origins Work Order: YB13478 Client: Tasman
 Client Project ID: Bryant

Checklist Completed by: JSH Shipped Via: TUD
 Date/time completed: 1/14/25 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 7 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: 7004

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 be in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JSH

Date/Time Reviewed 1/14/25

Origins Laboratory, Inc.

J. Bynon

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Jordan A. Bynon For Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

16-FL-B03@4'
11/14/2023 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311348-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0994	mg/L	1	B3K1508	11/15/2023	11/16/2023	
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DRO/ORO by EPA 8015D


Diesel (C10-C28)	ND		25.0	mg/kg	1	B3K1402	11/14/2023	11/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.1%		50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3K1423	11/14/2023	11/14/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100%		70-130	"	"	"	"	"	"
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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

16-FL-B03@4'
 11/14/2023 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311348-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	105 %		70-130			B3K14 23	11/14/2023	11/14/2023	
Surrogate: 4-Bromofluorobenzene	93.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.703		0.499	meq/L	10	[CALC]	11/15/2023	11/16/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.03		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3K1427	11/14/2023	11/14/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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11/14/2023 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311348-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3K1427	11/14/2023	11/14/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.4 %		60-130			"	"	"	
Surrogate: Anthracene-d10	104 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.8 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.99			pH Units	1	B3K1510	11/15/2023	11/16/2023	
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SAR by 20B Saturated Paste

SAR	1.32		0.0100	SAR	1	B3K1506	11/15/2023	11/16/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.254		0.00500	mmhos/cm	1	B3K1510	11/15/2023	11/16/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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16-FL-B03@4'
11/14/2023 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311348-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.14		0.0900	mg/kg	10	B3K1520	11/20/2023	11/20/2023	
Barium	16.0		9.00	"	"	"	"	"	
Cadmium	ND		0.0900	"	"	"	"	"	
Copper	ND		9.00	"	"	"	"	"	
Lead	ND		9.00	"	"	"	"	"	
Nickel	ND		9.00	"	"	"	"	"	
Selenium	ND		0.0900	"	"	"	"	"	
Silver	ND		0.0900	"	"	"	"	"	
Zinc	ND		90.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.508	mg/Kg	1	L717949	11/14/2023	11/20/2023	
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23-FL-B03@4'
11/14/2023 11:30:00AM

Origins Laboratory, Inc.
Y311348-02 (Soil)

Boron (DTPA Sorbitol)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron	ND		0.101	mg/L	1	B3K1508	11/15/2023	11/16/2023	

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3K1402	11/14/2023	11/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.7%		50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3K1423	11/14/2023	11/14/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101%		70-130	"	"	"	"	"	"
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23-FL-B03@4'
 11/14/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311348-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	104 %		70-130			B3K14 23	11/14/2023	11/14/2023	
Surrogate: 4-Bromofluorobenzene	96.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.867		0.499	meq/L	10	[CALC]	11/15/2023	11/16/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.24		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3K1427	11/14/2023	11/14/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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Andy Sagen
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23-FL-B03@4'
11/14/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311348-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3K1427	11/14/2023	11/14/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	96.9%		60-130			"	"	"	
Surrogate: Anthracene-d10	87.4%		60-130			"	"	"	
Surrogate: Pyrene-d10	99.6%		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.9%		60-130			"	"	"	

pH in Soil by 9045D

pH	8.07			pH Units	1	B3K1510	11/15/2023	11/16/2023	
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SAR by 20B Saturated Paste

SAR	1.46		0.0100	SAR	1	B3K1506	11/15/2023	11/16/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.294		0.00500	mmhos/cm	1	B3K1510	11/15/2023	11/16/2023	
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Table 915 metals by EPA 6020B

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Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

23-FL-B03@4'
11/14/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311348-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.70		0.0920	mg/kg	10	B3K1520	11/20/2023	11/20/2023	
Barium	21.3		9.20	"	"	"	"	"	
Cadmium	ND		0.0920	"	"	"	"	"	
Copper	ND		9.20	"	"	"	"	"	
Lead	ND		9.20	"	"	"	"	"	
Nickel	ND		9.20	"	"	"	"	"	
Selenium	ND		0.0920	"	"	"	"	"	
Silver	ND		0.0920	"	"	"	"	"	
Zinc	ND		92.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L717949	11/14/2023	11/20/2023	
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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

36-FL-B03@4'
11/14/2023 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311348-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.247	0.0997	mg/L	1	B3K1508	11/15/2023	11/16/2023	
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DRO/ORO by EPA 8015D


Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K1402	11/14/2023	11/14/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.9 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00202	0.00200	mg/kg	1	B3K1423	11/14/2023	11/14/2023	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"	"	"	"

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Andy Sagen
 Project Number: [none]
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36-FL-B03@4'
11/14/2023 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311348-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	96.0 %		70-130			B3K14 23	11/14/2023	11/14/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	3.05		0.499	meq/L	10	[CALC]	11/15/2023	11/16/2023	
Magnesium	2.21		0.823	"	"	"	"	"	
Sodium	4.35		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3K1427	11/14/2023	11/14/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U

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Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

36-FL-B03@4'
11/14/2023 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311348-03 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B3K1427	11/14/2023	11/14/2023	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	103 %		60-130			"	"	"	
Surrogate: Anthracene-d10	78.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.6 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.01			pH Units	1	B3K1510	11/15/2023	11/16/2023	
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SAR by 20B Saturated Paste

SAR	2.68		0.0100	SAR	1	B3K1506	11/15/2023	11/16/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.922		0.00500	mmhos/cm	1	B3K1510	11/15/2023	11/16/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.53		0.0951	mg/kg	10	B3K1520	11/20/2023	11/20/2023	
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

36-FL-B03@4'
11/14/2023 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311348-03 (Soil)

Table 915 metals by EPA 6020B

Barium	68.9		9.51	mg/kg	10	B3K1520	11/20/2023	11/20/2023	
Cadmium	0.0951		0.0951	"	"	"	"	"	
Copper	ND		9.51	"	"	"	"	"	
Lead	ND		9.51	"	"	"	"	"	
Nickel	ND		9.51	"	"	"	"	"	
Selenium	0.156		0.0951	"	"	"	"	"	
Silver	ND		0.0951	"	"	"	"	"	
Zinc	ND		95.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.504	mg/Kg	1	L717949	11/14/2023	11/20/2023	
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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 - Bryant 16,23,36-30

34-FL-B01@4'
11/14/2023 11:34:00AM

Origins Laboratory, Inc.
Y311348-04 (Soil)

Boron (DTPA Sorbitol)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron	0.216		0.0996	mg/L	1	B3K1508	11/15/2023	11/16/2023	

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3K1402	11/14/2023	11/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.3%		50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3K1423	11/14/2023	11/14/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102%		70-130	"	"	"	"	"	"
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

34-FL-B01@4'
11/14/2023 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311348-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B3K14 23	11/14/2023	11/14/2023	
Surrogate: 4-Bromofluorobenzene	95.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	8.94		0.499	meq/L	10	[CALC]	11/15/2023	11/16/2023	
Magnesium	5.19		0.823	"	"	"	"	"	
Sodium	6.52		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3K1427	11/14/2023	11/14/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

34-FL-B01@4'
11/14/2023 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311348-04 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3K1427	11/14/2023	11/14/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.6%		60-130			"	"	"	
Surrogate: Anthracene-d10	75.6%		60-130			"	"	"	
Surrogate: Pyrene-d10	99.4%		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.9%		60-130			"	"	"	

pH in Soil by 9045D

pH	8.00			pH Units	1	B3K1510	11/15/2023	11/16/2023	
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SAR by 20B Saturated Paste

SAR	2.45		0.0100	SAR	1	B3K1506	11/15/2023	11/16/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.62		0.00500	mmhos/cm	1	B3K1510	11/15/2023	11/16/2023	
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Table 915 metals by EPA 6020B

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Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

34-FL-B01@4'
11/14/2023 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311348-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.14		0.0905	mg/kg	10	B3K1520	11/20/2023	11/20/2023	
Barium	77.4		9.05	"	"	"	"	"	
Cadmium	0.117		0.0905	"	"	"	"	"	
Copper	9.87		9.05	"	"	"	"	"	
Lead	9.17		9.05	"	"	"	"	"	
Nickel	11.3		9.05	"	"	"	"	"	
Selenium	0.222		0.0905	"	"	"	"	"	
Silver	ND		0.0905	"	"	"	"	"	
Zinc	ND		90.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L717949	11/14/2023	11/20/2023	
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Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

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 B3K1402 - EPA 3550B

Blank (B3K1402-BLK1)

Prepared: 11/14/2023 Analyzed: 11/14/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		84.1	50-150			

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Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

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 B3K1402 - EPA 3550B

LCS (B3K1402-BS1)

Prepared: 11/14/2023 Analyzed: 11/14/2023

Diesel (C10-C28)	826	50.0	mg/kg	1000		82.6	70-130			
Residual Range Organics (C28-C40)	885	200	"	1000		88.5	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.5	50-150			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



Tasman Geosciences
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Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

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 B3K1402 - EPA 3550B

Matrix Spike (B3K1402-MS1)

Source: Y311348-01

Prepared: 11/14/2023 Analyzed: 11/14/2023

Diesel (C10-C28)	939	50.0	mg/kg	1000	ND	93.9	70-130			
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130			
Surrogate: o-Terphenyl	65		"	49.8		131	50-150			

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Project Number: [none]
Project: KMG - Bryant 16,23,36-30

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 B3K1402 - EPA 3550B

Matrix Spike Dup (B3K1402-MSD1)

Source: Y311348-01

Prepared: 11/14/2023 Analyzed: 11/14/2023

Diesel (C10-C28)	896	50.0	mg/kg	1000	ND	89.6	70-130	4.64	35	
Residual Range Organics (C28-C40)	962	200	"	1000	ND	96.2	70-130	10.0	35	
Surrogate: o-Terphenyl	43		"	49.8		87.3	50-150			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

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 B3K1423 - EPA 5030 (soil)

Blank (B3K1423-BLK1)

Prepared: 11/14/2023 Analyzed: 11/14/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.2	70-130			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

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 B3K1423 - EPA 5030 (soil)

LCS (B3K1423-BS1)

Prepared: 11/14/2023 Analyzed: 11/14/2023

1,2,4-Trimethylbenzene	0.0962	0.00200	mg/kg	0.100		96.2	70-130			
1,3,5-Trimethylbenzene	0.0971	0.00200	"	0.100		97.1	70-130			
Benzene	0.0944	0.00200	"	0.100		94.4	70-130			
Ethylbenzene	0.0997	0.00200	"	0.100		99.7	70-130			
Naphthalene	0.0855	0.00380	"	0.100		85.5	70-130			
Toluene	0.0922	0.00200	"	0.100		92.2	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

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 B3K1423 - EPA 5030 (soil)

Matrix Spike (B3K1423-MS1)

Source: Y311348-01

Prepared: 11/14/2023 Analyzed: 11/14/2023

1,2,4-Trimethylbenzene	0.0976	0.00200	mg/kg	0.100	ND	97.6	70-130			
1,3,5-Trimethylbenzene	0.0968	0.00200	"	0.100	ND	96.8	70-130			
Benzene	0.0966	0.00200	"	0.100	ND	96.6	70-130			
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Naphthalene	0.0918	0.00380	"	0.100	0.000820	90.9	70-130			
Toluene	0.0935	0.00200	"	0.100	ND	93.5	70-130			
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130			
m,p-Xylene	0.201	0.00400	"	0.200	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

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 B3K1423 - EPA 5030 (soil)

Matrix Spike Dup (B3K1423-MSD1)

Source: Y311348-01

Prepared: 11/14/2023 Analyzed: 11/14/2023

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130	5.91	20	
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130	6.79	20	
Benzene	0.103	0.00200	"	0.100	ND	103	70-130	6.30	20	
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	6.00	20	
Naphthalene	0.0984	0.00380	"	0.100	0.000820	97.6	70-130	7.02	20	
Toluene	0.0998	0.00200	"	0.100	ND	99.8	70-130	6.46	20	
o-Xylene	0.115	0.00200	"	0.100	ND	115	70-130	5.67	20	
m,p-Xylene	0.214	0.00400	"	0.200	ND	107	70-130	6.09	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

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 B3K1520 - EPA 3050B

Blank (B3K1520-BLK1)

Prepared: 11/20/2023 Analyzed: 11/20/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3K1520-BS1)

Prepared: 11/20/2023 Analyzed: 11/20/2023

Arsenic	0.0508	0.000100	mg/kg	0.0500		102	80-120			
Barium	5.39	0.0100	"	5.00		108	80-120			
Cadmium	0.0558	0.000100	"	0.0500		112	80-120			
Copper	0.510	0.0100	"	0.500		102	80-120			
Lead	0.0539	0.0100	"	0.0500		108	80-120			
Nickel	0.0509	0.0100	"	0.0500		102	80-120			
Selenium	0.0526	0.000100	"	0.0500		105	80-120			
Silver	0.0578	0.000100	"	0.0500		116	80-120			
Zinc	0.501	0.100	"	0.500		100	80-120			

Matrix Spike (B3K1520-MS1)

Source: Y311090-01

Prepared: 11/20/2023 Analyzed: 11/20/2023

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

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 B3K1520 - EPA 3050B

Matrix Spike (B3K1520-MS1)

Source: Y311090-01

Prepared: 11/20/2023 Analyzed: 11/20/2023

Arsenic	10.7	0.0958	mg/kg	4.79	5.05	118	75-125			
Barium	670	9.58	"	479	110	117	75-125			
Cadmium	6.01	0.0958	"	4.79	0.130	123	75-125			
Copper	67.2	9.58	"	47.9	10.8	118	75-125			
Lead	13.4	9.58	"	4.79	8.01	113	75-125			
Nickel	15.8	9.58	"	4.79	9.54	131	75-125			QM-07
Selenium	5.45	0.0958	"	4.79	0.197	110	75-125			
Silver	6.11	0.0958	"	4.79	0.0506	126	75-125			QM-07
Zinc	96.6	95.8	"	47.9	38.1	122	75-125			

Matrix Spike Dup (B3K1520-MSD1)

Source: Y311090-01

Prepared: 11/20/2023 Analyzed: 11/20/2023

Arsenic	11.0	0.0928	mg/kg	4.64	5.05	129	75-125	3.13	20	QM-07
Barium	699	9.28	"	464	110	127	75-125	4.32	20	QM-07
Cadmium	5.84	0.0928	"	4.64	0.130	123	75-125	2.81	20	
Copper	63.4	9.28	"	46.4	10.8	113	75-125	5.92	20	
Lead	14.4	9.28	"	4.64	8.01	137	75-125	6.76	20	QM-07
Nickel	16.9	9.28	"	4.64	9.54	159	75-125	6.57	20	QM-07
Selenium	4.93	0.0928	"	4.64	0.197	102	75-125	9.96	20	
Silver	5.92	0.0928	"	4.64	0.0506	127	75-125	3.02	20	QM-07
Zinc	94.2	92.8	"	46.4	38.1	121	75-125	2.55	20	

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Jordan A. Bynon For Jen Pellegrini, Project Manager



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

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 B3K1427 - EPA 3580

Blank (B3K1427-BLK1)

Prepared: 11/14/2023 Analyzed: 11/14/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	200		ug/kg	200		99.4	60-130			
Surrogate: Anthracene-d10	170		"	200		87.3	60-130			
Surrogate: Pyrene-d10	200		"	200		98.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.3	60-130			

LCS (B3K1427-BS1)

Prepared: 11/14/2023 Analyzed: 11/14/2023

1-Methylnaphthalene	0.201	0.002	mg/kg	0.200		100	70-130			
2-Methylnaphthalene	0.197	0.002	"	0.200		98.4	70-130			
Acenaphthene	0.204	0.020	"	0.200		102	70-130			
Anthracene	0.181	0.020	"	0.200		90.7	70-130			

Origins Laboratory, Inc.

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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

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 B3K1427 - EPA 3580

LCS (B3K1427-BS1)

Prepared: 11/14/2023 Analyzed: 11/14/2023

Benzo (a) anthracene	0.166	0.005	mg/kg	0.200		82.8	70-130			
Benzo (a) pyrene	0.199	0.020	"	0.200		99.5	70-130			
Benzo (b) fluoranthene	0.178	0.020	"	0.200		89.0	70-130			
Benzo (g,h,i) perylene	0.208	0.020	"	0.200		104	70-130			
Benzo (k) fluoranthene	0.225	0.020	"	0.200		113	70-130			
Chrysene	0.206	0.020	"	0.200		103	70-130			
Dibenz (a,h) anthracene	0.198	0.020	"	0.200		98.9	70-130			
Fluoranthene	0.209	0.020	"	0.200		105	70-130			
Fluorene	0.207	0.020	"	0.200		104	70-130			
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200		104	70-130			
Naphthalene	0.208	0.002	"	0.200		104	70-130			
Phenanthrene	0.189	0.020	"	0.200		94.7	70-130			
Pyrene	0.185	0.020	"	0.200		92.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	170		"	200		86.1	60-130			
Surrogate: Pyrene-d10	190		"	200		94.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.8	60-130			

Matrix Spike (B3K1427-MS1)

Source: Y311348-01

Prepared: 11/14/2023 Analyzed: 11/14/2023

1-Methylnaphthalene	0.218	0.002	mg/kg	0.200	ND	109	70-130			
2-Methylnaphthalene	0.202	0.002	"	0.200	ND	101	70-130			
Acenaphthene	0.200	0.020	"	0.200	ND	100	70-130			
Anthracene	0.181	0.020	"	0.200	ND	90.7	70-130			
Benzo (a) anthracene	0.179	0.005	"	0.200	ND	89.3	70-130			
Benzo (a) pyrene	0.198	0.020	"	0.200	ND	99.1	70-130			
Benzo (b) fluoranthene	0.181	0.020	"	0.200	ND	90.7	70-130			
Benzo (g,h,i) perylene	0.199	0.020	"	0.200	ND	99.6	70-130			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

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 B3K1427 - EPA 3580

Matrix Spike (B3K1427-MS1)

Source: Y311348-01

Prepared: 11/14/2023 Analyzed: 11/14/2023

Benzo (k) fluoranthene	0.231	0.020	mg/kg	0.200	ND	116	70-130			
Chrysene	0.184	0.020	"	0.200	ND	92.2	70-130			
Dibenz (a,h) anthracene	0.198	0.020	"	0.200	ND	98.8	70-130			
Fluoranthene	0.207	0.020	"	0.200	ND	103	70-130			
Fluorene	0.202	0.020	"	0.200	ND	101	70-130			
Indeno (1,2,3-cd) pyrene	0.209	0.020	"	0.200	ND	105	70-130			
Naphthalene	0.208	0.002	"	0.200	ND	104	70-130			
Phenanthrene	0.191	0.020	"	0.200	ND	95.6	70-130			
Pyrene	0.184	0.020	"	0.200	ND	91.9	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	180		"	200		88.1	60-130			
Surrogate: Pyrene-d10	190		"	200		95.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.5	60-130			

Matrix Spike Dup (B3K1427-MSD1)

Source: Y311348-01

Prepared: 11/14/2023 Analyzed: 11/14/2023

1-Methylnaphthalene	0.195	0.002	mg/kg	0.200	ND	97.6	70-130	10.9	20	
2-Methylnaphthalene	0.189	0.002	"	0.200	ND	94.5	70-130	6.66	20	
Acenaphthene	0.203	0.020	"	0.200	ND	102	70-130	1.37	20	
Anthracene	0.199	0.020	"	0.200	ND	99.3	70-130	9.12	20	
Benzo (a) anthracene	0.170	0.005	"	0.200	ND	85.1	70-130	4.85	20	
Benzo (a) pyrene	0.203	0.020	"	0.200	ND	102	70-130	2.52	20	
Benzo (b) fluoranthene	0.180	0.020	"	0.200	ND	90.1	70-130	0.631	20	
Benzo (g,h,i) perylene	0.215	0.020	"	0.200	ND	108	70-130	7.73	20	
Benzo (k) fluoranthene	0.237	0.020	"	0.200	ND	118	70-130	2.35	20	
Chrysene	0.176	0.020	"	0.200	ND	88.0	70-130	4.68	20	
Dibenz (a,h) anthracene	0.200	0.020	"	0.200	ND	99.9	70-130	1.11	20	
Fluoranthene	0.205	0.020	"	0.200	ND	103	70-130	0.734	20	

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Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

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 B3K1427 - EPA 3580

Matrix Spike Dup (B3K1427-MSD1)

Source: Y311348-01

Prepared: 11/14/2023 Analyzed: 11/14/2023

Fluorene	0.199	0.020	mg/kg	0.200	ND	99.3	70-130	1.48	20	
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200	ND	101	70-130	3.04	20	
Naphthalene	0.204	0.002	"	0.200	ND	102	70-130	1.93	20	
Phenanthrene	0.200	0.020	"	0.200	ND	100	70-130	4.42	20	
Pyrene	0.187	0.020	"	0.200	ND	93.6	70-130	1.75	20	
Surrogate: Fluorene-d10	190		ug/kg	200		96.6	60-130			
Surrogate: Anthracene-d10	170		"	200		87.2	60-130			
Surrogate: Pyrene-d10	190		"	200		95.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

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 B3K1506 - Saturated Paste Metals

Blank (B3K1506-BLK1)

Prepared: 11/15/2023 Analyzed: 11/16/2023

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 (B3K1506-DUP1)

Source: Y311348-01

Prepared: 11/15/2023 Analyzed: 11/16/2023

SAR	ND	0.0100	SAR	1.32				200		
Calcium PPM	15.7	10.0	mg/L	14.1				11.1	50	
Magnesium PPM	6.82	10.0	"	6.34				7.29	50	
Sodium PPM	23.3	10.0	"	23.7				1.96	50	

Batch B3K1508 - DTPA Sorbitol Preparation

Blank (B3K1508-BLK1)

Prepared: 11/15/2023 Analyzed: 11/16/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3K1508-DUP1)

Source: Y311332-01

Prepared: 11/15/2023 Analyzed: 11/16/2023

Boron	0.332	0.0987	mg/L	0.0775				124	50	QR-DUP
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Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

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 B3K1510 - Saturated Paste pH/EC

Blank (B3K1510-BLK1)

Prepared: 11/15/2023 Analyzed: 11/16/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3K1510-DUP1)

Source: Y311348-01

Prepared: 11/15/2023 Analyzed: 11/16/2023

pH 7.90 pH Units 7.99 1.13 25

Specific Conductance (EC) 0.261 0.00500 mmhos/cm 0.254 2.91 25

Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L717949 -

DUP (L 97387-DUP)

Source: 97387

Prepared: Analyzed: 11/20/2023

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
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MS (L 97387-MS)

Source: 97387

Prepared: Analyzed: 11/20/2023

Chromium, Hexavalent	36.7	2.56	mg/Kg	41	<1.25	90	75-125			
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LCS (LCS)

Prepared: Analyzed: 11/20/2023

Chromium, Hexavalent	6.8	0.5	mg/Kg	8		85	75-125			
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LRB (LRB)

Prepared: Analyzed: 11/20/2023

Chromium, Hexavalent	ND	0.5	mg/Kg			-				
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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

Notes and Definitions

U Sample is Non-Detect.

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

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.

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