

November 21, 2023

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

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**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 08, 2023. This project is associated with Origins project number Y311214-01.

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 - Bryant 16,23,36-30

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
16-WH-B01@6'	Y311214-01	Soil	November 8, 2023 8:26	11/08/2023 14:10
16-FL-B01@4'	Y311214-02	Soil	November 8, 2023 8:28	11/08/2023 14:10
23-WH-B01@6'	Y311214-03	Soil	November 8, 2023 8:30	11/08/2023 14:10
23-FL-B01@4'	Y311214-04	Soil	November 8, 2023 8:32	11/08/2023 14:10
36-WH-B01@6'	Y311214-05	Soil	November 8, 2023 8:34	11/08/2023 14:10
36-FL-B01@4'	Y311214-06	Soil	November 8, 2023 8:36	11/08/2023 14:10
16,23,36-BG-01@3'	Y311214-07	Soil	November 8, 2023 8:38	11/08/2023 14:10
16,23,36-BG-01@6'	Y311214-08	Soil	November 8, 2023 8:40	11/08/2023 14:10
16,23,36-BG-02@3'	Y311214-09	Soil	November 8, 2023 8:42	11/08/2023 14:10
16,23,36-BG-02@6'	Y311214-10	Soil	November 8, 2023 8:44	11/08/2023 14:10
16,23,36-BG-03@3'	Y311214-11	Soil	November 8, 2023 8:46	11/08/2023 14:10
16,23,36-BG-03@6'	Y311214-12	Soil	November 8, 2023 8:48	11/08/2023 14:10
16,23,36-BG-04@3'	Y311214-13	Soil	November 8, 2023 8:50	11/08/2023 14:10
16,23,36-BG-04@6'	Y311214-14	Soil	November 8, 2023 8:52	11/08/2023 14:10

Origins Laboratory, Inc.



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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-B02@4'	Y311214-15	Soil	November 8, 2023 12:46	11/08/2023 14:10
23-FL-B02@4'	Y311214-16	Soil	November 8, 2023 12:48	11/08/2023 14:10
16-GW01	Y311214-17	Water	November 8, 2023 8:20	11/08/2023 14:10
23-GW01	Y311214-18	Water	November 8, 2023 8:22	11/08/2023 14:10
36-GW01	Y311214-19	Water	November 8, 2023 8:24	11/08/2023 14:10

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

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

**ORIGINS**  
LABORATORY, INC

431/214

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page 1 of 2

Client: On/ Tasman

Address: 6855 W 119th Ave.  
Broomfield, CO 80020

Telephone Number: 303.433.1322  
Fax: 303.265.9645

Email Address: On/ tasman@originslab.com

Project Manager: Andy Sagen

Project Name: Bryant 16,23,36-30

Project Number:

Samples Collected By: P. Davis

Method of Delivery (Date Only): Hand Delivered - Package/Tasman Lab Box Drop Service Center Drop FedEx UPS

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis		Metals					
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air		Summa Canister #	Other	DBT/TEX/THM	DR/DO/RO	PAH
16-WH-80106'	11/9/13	8:26	3													
16-FL-80104'		8:29														
23-WH-80106'		8:30														
23-FL-80104'		8:32														
36-WH-80106'		8:34														
36-FL-80104'		8:36														
16,23,36-80103'		8:38	2													
16,23,36-80106'		8:40														
16,23,36-80103'		8:42														
16,23,36-80106'		8:44														
Relinquished By: P. Davis	Date: 11/8/13	Time: 1410														
Received By: JST	Date: 11/8/13	Time: 1410														
Relinquished By:	Date:	Time:														
Received By:	Date:	Time:														
Turnaround Time:																
Same Day <input checked="" type="checkbox"/>	24 Hr <input type="checkbox"/>															
48 Hr <input type="checkbox"/>	72 Hr <input type="checkbox"/>															
Standard <input type="checkbox"/>																

55 Date Results Needed

Origins Laboratory, Inc.

*J. Bynon*

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**ORIGINS**  
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page 2 of 2

Client: Ory/Tasman

Address: 6855 W 119th Ave,  
Broomfield, CO 80020

Telephone Number: EM Contact Number (720) 939-3631

Email Address: Ory/Tasman@originslab.com

Project Manager: Andy Sagen

Project Name: Bryant 16, 23, 36-30

Project Number:

Samples Collected By: J. Dowd

Method of Delivery (Circle One): Hand Delivered (Please/Tasman) Last Box Drop Service Center Drop Policy UPS

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis		Please contact Ory with any questions Samples to be analyzed for Table 915 Parameters: Full Table 915 includes: VOC (GROUNDAW) Full PRA, MVI SAR, EC, pH, Benz, Cu, Cr, Ni, Pb, Se, Mn, As, Ba, Cd, Co, Fe, Hg, K, Li, Na, Zn	
				HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other		GBTEXN-TMB DRO/ORO PAH SAR EC pH Boron Full Table 915
16, 23, 36-36-03-03	11/9/03	8:46	2	X				X			metals	1
16, 23, 36-36-03-03		8:49	1									2
16, 23, 36-36-03-03		8:50	1									3
16, 23, 36-36-03-03		8:52	1									4
16, 23, 36-36-03-03		8:54	3									5
16, 23, 36-36-03-03		8:56	1									6
16, 23, 36-36-03-03		8:58	1									7
16, 23, 36-36-03-03		8:59	1									8
16, 23, 36-36-03-03		9:00	1									9
16, 23, 36-36-03-03		9:01	1									10

5.5 Date Results Needed

Origins Laboratory, Inc.

*J. Bynon*

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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: MB11214

Client: Tasman

Client Project ID: Bryant 16,23,36-30

Checklist Completed by: JH/ELS

Shipped Via: FED

Date/time completed: 11/8/23

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

Airbill #: N/A

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

Cooler Number/Temperature: 1,5.5 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 11/8/23

Origins Laboratory, Inc.

[Signature]

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6855 West 119th Avenue  
Broomfield CO 80020

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

16-WH-B01@6'  
11/8/2023 8:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.399	0.0994	mg/L	1	B3K0915	11/09/2023	11/10/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K0802	11/08/2023	11/08/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.1 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0829	11/08/2023	11/08/2023	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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Andy Sagen  
Project Number: [none]  
Project: KMG - Bryant 16,23,36-30

16-WH-B01@6'  
11/8/2023 8:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.0 %	70-130				B3K0829	11/08/2023	11/08/2023	
Surrogate: 4-Bromofluorobenzene	103 %	70-130				"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	6.68	0.499	meq/L	10	[CALC]	11/09/2023	11/13/2023	
Magnesium	4.53	0.823	"	"	"	"	"	
Sodium	11.0	0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K0827	11/08/2023	11/08/2023	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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Project: KMG - Bryant 16,23,36-30

16-WH-B01@6'  
11/8/2023 8:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-01 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND	0.020	mg/kg	1	B3K0827	11/08/2023	11/08/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	93.8 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.15	pH Units	1	B3K0923	11/09/2023	11/10/2023
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**SAR by 20B Saturated Paste**

SAR	4.65	0.0100	SAR	1	B3K0918	11/09/2023	11/13/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.02	0.00500	mmhos/cm	1	B3K0923	11/09/2023	11/10/2023
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**Table 915 metals by EPA 6020B**

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

16-WH-B01@6'  
11/8/2023 8:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-01 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.99	0.0838	mg/kg	10	B3K1005	11/10/2023	11/14/2023
Barium	165	8.38	"	"	"	"	"
Cadmium	0.117	0.0838	"	"	"	"	"
Copper	8.85	8.38	"	"	"	"	"
Lead	ND	8.38	"	"	"	"	"
Nickel	9.59	8.38	"	"	"	"	"
Selenium	0.191	0.0838	"	"	"	"	"
Silver	ND	0.0838	"	"	"	"	"
Zinc	ND	83.8	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L716303	11/08/2023	11/10/2023
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Andy Sagen  
Project Number: [none]  
Project: KMG - Bryant 16,23,36-30

16-FL-B01@4'  
11/8/2023 8:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.250	0.0983	mg/L	1	B3K0915	11/09/2023	11/10/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	36.5	25.0	mg/kg	1	B3K0802	11/08/2023	11/08/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.6 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0829	11/08/2023	11/08/2023	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	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"	

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

16-FL-B01@4'

11/8/2023 8:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311214-02 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	103 %	70-130	B3K08 29	11/08/2023	11/08/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	2.80	0.499	meq/L	10	[CALC]	11/09/2023	11/13/2023
Magnesium	0.843	0.823	"	"	"	"	"
Sodium	0.896	0.435	"	"	"	"	"

## PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K0827	11/08/2023	11/08/2023	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

16-FL-B01@4'

11/8/2023 8:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-02 (Soil)**

**PAH by EPA 8270E**

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B3K0827	11/08/2023	11/08/2023	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	92.4 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.8 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.17	pH Units	1	B3K0923	11/09/2023	11/10/2023
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**SAR by 20B Saturated Paste**

SAR	0.664	0.0100	SAR	1	B3K0918	11/09/2023	11/13/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.506	0.00500	mmhos/cm	1	B3K0923	11/09/2023	11/10/2023
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**Table 915 metals by EPA 6020B**

Arsenic	3.27	0.0992	mg/kg	10	B3K1005	11/10/2023	11/14/2023
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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 - Bryant 16,23,36-30

16-FL-B01@4'

11/8/2023 8:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-02 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	498	9.92	mg/kg	10	B3K1005	11/10/2023	11/14/2023
Cadmium	0.611	0.0992	"	"	"	"	"
Copper	14.8	9.92	"	"	"	"	"
Lead	ND	9.92	"	"	"	"	"
Nickel	10.1	9.92	"	"	"	"	"
Selenium	0.115	0.0992	"	"	"	"	"
Silver	ND	0.0992	"	"	"	"	"
Zinc	ND	99.2	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L716303	11/08/2023	11/10/2023
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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 - Bryant 16,23,36-30

23-WH-B01@6'  
11/8/2023 8:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311214-03 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.589	0.101	mg/L	1	B3K0915	11/09/2023	11/10/2023	
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## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K0802	11/08/2023	11/08/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.8 %	50-150			"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0829	11/08/2023	11/08/2023	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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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 - Bryant 16,23,36-30

23-WH-B01@6'

11/8/2023 8:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311214-03 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.5 %	70-130				B3K08 29	11/08/2023	11/08/2023	
Surrogate: 4-Bromofluorobenzene	103 %	70-130				"	"	"	

## Metals by Saturated Paste by EPA 6010

Calcium	13.4	0.499	meq/L	10	[CALC]	11/09/2023	11/13/2023	
Magnesium	2.84	0.823	"	"	"	"	"	
Sodium	10.3	0.435	"	"	"	"	"	

## PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K0827	11/08/2023	11/08/2023	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

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 - Bryant 16,23,36-30

**23-WH-B01@6'**  
**11/8/2023 8:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-03 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND	0.020	mg/kg	1	B3K0827	11/08/2023	11/08/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	92.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.7 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.85	pH Units	1	B3K0923	11/09/2023	11/10/2023
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**SAR by 20B Saturated Paste**

SAR	3.61	0.0100	SAR	1	B3K0918	11/09/2023	11/13/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.23	0.00500	mmhos/cm	1	B3K0923	11/09/2023	11/10/2023
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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 - Bryant 16,23,36-30

23-WH-B01@6'

11/8/2023 8:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311214-03 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	3.04	0.0930	mg/kg	10	B3K1005	11/10/2023	11/14/2023
Barium	185	9.30	"	"	"	"	"
Cadmium	0.151	0.0930	"	"	"	"	"
Copper	12.9	9.30	"	"	"	"	"
Lead	9.38	9.30	"	"	"	"	"
Nickel	11.4	9.30	"	"	"	"	"
Selenium	0.139	0.0930	"	"	"	"	"
Silver	ND	0.0930	"	"	"	"	"
Zinc	ND	93.0	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L716303	11/08/2023	11/10/2023
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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 - Bryant 16,23,36-30

23-FL-B01@4'  
11/8/2023 8:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.345	0.0992	mg/L	1	B3K0915	11/09/2023	11/10/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K0802	11/08/2023	11/08/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	92.7 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0829	11/08/2023	11/08/2023	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	105 %	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 - Bryant 16,23,36-30

23-FL-B01@4'

11/8/2023 8:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.9 %	70-130	B3K08 29	11/08/2023	11/08/2023
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	2.72	0.499	meq/L	10	[CALC]	11/09/2023	11/13/2023
Magnesium	1.21	0.823	"	"	"	"	"
Sodium	2.02	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K0827	11/08/2023	11/09/2023	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

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 - Bryant 16,23,36-30

23-FL-B01@4'  
11/8/2023 8:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-04 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND	0.020	mg/kg	1	B3K0827	11/08/2023	11/09/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	104 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	96.6 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.9 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.23	pH Units	1	B3K0923	11/09/2023	11/10/2023
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**SAR by 20B Saturated Paste**

SAR	1.44	0.0100	SAR	1	B3K0918	11/09/2023	11/13/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.647	0.00500	mmhos/cm	1	B3K0923	11/09/2023	11/10/2023
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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 - Bryant 16,23,36-30

23-FL-B01@4'

11/8/2023 8:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-04 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	3.44	0.0902	mg/kg	10	B3K1005	11/10/2023	11/14/2023
Barium	42.5	9.02	"	"	"	"	"
Cadmium	0.0974	0.0902	"	"	"	"	"
Copper	ND	9.02	"	"	"	"	"
Lead	ND	9.02	"	"	"	"	"
Nickel	ND	9.02	"	"	"	"	"
Selenium	0.115	0.0902	"	"	"	"	"
Silver	ND	0.0902	"	"	"	"	"
Zinc	ND	90.2	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L716303	11/08/2023	11/10/2023
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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 - Bryant 16,23,36-30

36-WH-B01@6'  
11/8/2023 8:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.699	0.0998	mg/L	1	B3K0915	11/09/2023	11/10/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K0802	11/08/2023	11/09/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.2 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0829	11/08/2023	11/09/2023	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	104 %	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 - Bryant 16,23,36-30

36-WH-B01@6'  
11/8/2023 8:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.9 %	70-130	B3K08 29	11/08/2023	11/09/2023
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	3.79	0.499	meq/L	10	[CALC]	11/09/2023	11/13/2023
Magnesium	3.01	0.823	"	"	"	"	"
Sodium	10.4	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K0827	11/08/2023	11/09/2023	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

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 - Bryant 16,23,36-30

36-WH-B01@6'  
11/8/2023 8:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-05 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND	0.020	mg/kg	1	B3K0827	11/08/2023	11/09/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	104 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.0 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.21	pH Units	1	B3K0923	11/09/2023	11/10/2023
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**SAR by 20B Saturated Paste**

SAR	5.63	0.0100	SAR	1	B3K0918	11/09/2023	11/13/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.76	0.00500	mmhos/cm	1	B3K0923	11/09/2023	11/10/2023
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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 - Bryant 16,23,36-30

36-WH-B01@6'

11/8/2023 8:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311214-05 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	3.45	0.0949	mg/kg	10	B3K1005	11/10/2023	11/14/2023
Barium	442	9.49	"	"	"	"	"
Cadmium	0.182	0.0949	"	"	"	"	"
Copper	12.8	9.49	"	"	"	"	"
Lead	9.95	9.49	"	"	"	"	"
Nickel	13.6	9.49	"	"	"	"	"
Selenium	0.260	0.0949	"	"	"	"	"
Silver	ND	0.0949	"	"	"	"	"
Zinc	ND	94.9	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L716303	11/08/2023	11/10/2023
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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 - Bryant 16,23,36-30

36-FL-B01@4'  
11/8/2023 8:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.643	0.0988	mg/L	1	B3K0915	11/09/2023	11/10/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K0802	11/08/2023	11/09/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.4 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0829	11/08/2023	11/09/2023	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	107 %	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 - Bryant 16,23,36-30

36-FL-B01@4'

11/8/2023 8:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-06 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.5 %	70-130	B3K08 29	11/08/2023	11/09/2023
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	1.21	0.499	meq/L	10	[CALC]	11/09/2023	11/13/2023
Magnesium	0.904	0.823	"	"	"	"	"
Sodium	4.40	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K0827	11/08/2023	11/09/2023	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

36-FL-B01@4'

11/8/2023 8:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-06 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND	0.020	mg/kg	1	B3K0827	11/08/2023	11/09/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	104 %	60-130	"	"	"
Surrogate: Anthracene-d10	98.4 %	60-130	"	"	"
Surrogate: Pyrene-d10	95.3 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.4 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.33	pH Units	1	B3K0923	11/09/2023	11/10/2023
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**SAR by 20B Saturated Paste**

SAR	4.28	0.0100	SAR	1	B3K0918	11/09/2023	11/13/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.723	0.00500	mmhos/cm	1	B3K0923	11/09/2023	11/10/2023
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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 - Bryant 16,23,36-30

36-FL-B01@4'

11/8/2023 8:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-06 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	3.20	0.0984	mg/kg	10	B3K1005	11/10/2023	11/14/2023
Barium	100	9.84	"	"	"	"	"
Cadmium	0.135	0.0984	"	"	"	"	"
Copper	13.2	9.84	"	"	"	"	"
Lead	ND	9.84	"	"	"	"	"
Nickel	11.2	9.84	"	"	"	"	"
Selenium	0.174	0.0984	"	"	"	"	"
Silver	ND	0.0984	"	"	"	"	"
Zinc	ND	98.4	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L716303	11/08/2023	11/10/2023
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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

**16.23.36-BG-01@3'**  
**11/8/2023 8:38:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.100	mg/L	1	B3K0915	11/09/2023	11/10/2023
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	11/09/2023	11/13/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.49	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.01		pH Units	1	B3K0924	11/09/2023	11/10/2023
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**SAR by 20B Saturated Paste**

SAR	2.86	0.0100	SAR	1	B3K0919	11/09/2023	11/13/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.251	0.00500	mmhos/cm	1	B3K0924	11/09/2023	11/10/2023
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**Table 915 metals by EPA 6020B**

Arsenic	1.36	0.0836	mg/kg	10	B3K1005	11/10/2023	11/14/2023
Barium	26.0	8.36	"	"	"	"	"
Cadmium	ND	0.0836	"	"	"	"	"

Origins Laboratory, Inc.



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6855 West 119th Avenue  
Broomfield CO 80020

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

16.23.36-BG-01@3'  
11/8/2023 8:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-07 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND	8.36	mg/kg	10	B3K1005	11/10/2023	11/14/2023
Lead	ND	8.36	"	"	"	"	"
Nickel	ND	8.36	"	"	"	"	"
Selenium	ND	0.0836	"	"	"	"	"
Silver	ND	0.0836	"	"	"	"	"
Zinc	ND	83.6	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L716303	11/08/2023	11/10/2023
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Origins Laboratory, Inc.



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6855 West 119th Avenue  
Broomfield CO 80020

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

**16.23.36-BG-01@6'**  
**11/8/2023 8:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-08 (Soil)**

### Boron (DTPA Sorbitol)

Boron	0.224	0.0985	mg/L	1	B3K0915	11/09/2023	11/10/2023
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### Metals by Saturated Paste by EPA 6010

Calcium	0.662	0.499	meq/L	10	[CALC]	11/09/2023	11/13/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.61	0.435	"	"	"	"	"

### pH in Soil by 9045D

pH	8.30		pH Units	1	B3K0924	11/09/2023	11/10/2023
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### SAR by 20B Saturated Paste

SAR	3.36	0.0100	SAR	1	B3K0919	11/09/2023	11/13/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.421	0.00500	mmhos/cm	1	B3K0924	11/09/2023	11/10/2023
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### Table 915 metals by EPA 6020B

Arsenic	3.25	0.0865	mg/kg	10	B3K1006	11/10/2023	11/15/2023
Barium	63.0	8.65	"	"	"	"	"
Cadmium	0.0926	0.0865	"	"	"	"	"
Copper	ND	8.65	"	"	"	"	"

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

**16.23.36-BG-01@6'**  
**11/8/2023 8:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-08 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	9.58		8.65	mg/kg	10	B3K1006	11/10/2023	11/15/2023	
Nickel	ND		8.65	"	"	"	"	"	
Selenium	ND		0.0865	"	"	"	"	"	
Silver	ND		0.0865	"	"	"	"	"	
Zinc	ND		86.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L716303	11/08/2023	11/10/2023	
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Origins Laboratory, Inc.



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6855 West 119th Avenue  
Broomfield CO 80020

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

**16.23.36-BG-02@3'**  
**11/8/2023 8:42:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-09 (Soil)**

### Boron (DTPA Sorbitol)

Boron	1.21	0.0982	mg/L	1	B3K0915	11/09/2023	11/10/2023
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### Metals by Saturated Paste by EPA 6010

Calcium	1.24	0.499	meq/L	10	[CALC]	11/09/2023	11/13/2023
Magnesium	2.35	0.823	"	"	"	"	"
Sodium	29.4	0.435	"	"	"	"	"

### pH in Soil by 9045D

pH	8.52		pH Units	1	B3K0924	11/09/2023	11/10/2023
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### SAR by 20B Saturated Paste

SAR	22.0	0.0100	SAR	1	B3K0919	11/09/2023	11/13/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.28	0.00500	mmhos/cm	1	B3K0924	11/09/2023	11/10/2023
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### Table 915 metals by EPA 6020B

Arsenic	4.80	0.0942	mg/kg	10	B3K1006	11/10/2023	11/15/2023
Barium	97.7	9.42	"	"	"	"	"
Cadmium	0.122	0.0942	"	"	"	"	"
Copper	10.2	9.42	"	"	"	"	"

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

16.23.36-BG-02@3'  
11/8/2023 8:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-09 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	11.3	9.42	mg/kg	10	B3K1006	11/10/2023	11/15/2023
Nickel	12.5	9.42	"	"	"	"	"
Selenium	0.238	0.0942	"	"	"	"	"
Silver	ND	0.0942	"	"	"	"	"
Zinc	ND	94.2	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L716303	11/08/2023	11/10/2023
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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

**16.23.36-BG-02@6'**  
**11/8/2023 8:44:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	<b>0.466</b>	0.101	mg/L	1	B3K0915	11/09/2023	11/10/2023
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**Metals by Saturated Paste by EPA 6010**

Calcium	<b>0.620</b>	0.499	meq/L	10	[CALC]	11/09/2023	11/13/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	<b>4.08</b>	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	<b>8.34</b>		pH Units	1	B3K0924	11/09/2023	11/10/2023
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**SAR by 20B Saturated Paste**

SAR	<b>5.10</b>	0.0100	SAR	1	B3K0919	11/09/2023	11/13/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.576</b>	0.00500	mmhos/cm	1	B3K0924	11/09/2023	11/10/2023
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**Table 915 metals by EPA 6020B**

Arsenic	<b>1.45</b>	0.0895	mg/kg	10	B3K1006	11/10/2023	11/15/2023
Barium	<b>26.5</b>	8.95	"	"	"	"	"
Cadmium	ND	0.0895	"	"	"	"	"
Copper	ND	8.95	"	"	"	"	"

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

**16.23.36-BG-02@6'**  
**11/8/2023 8:44:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-10 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	ND	8.95	mg/kg	10	B3K1006	11/10/2023	11/15/2023
Nickel	ND	8.95	"	"	"	"	"
Selenium	ND	0.0895	"	"	"	"	"
Silver	ND	0.0895	"	"	"	"	"
Zinc	ND	89.5	"	"	"	"	"

**Total Metals by 7196 A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L716305	11/08/2023	11/10/2023
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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

16.23.36-BG-03@3'  
11/8/2023 8:46:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-11 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.197	0.0989	mg/L	1	B3K0915	11/09/2023	11/10/2023
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.96	0.499	meq/L	10	[CALC]	11/09/2023	11/13/2023
Magnesium	1.59	0.823	"	"	"	"	"
Sodium	4.58	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.22		pH Units	1	B3K0924	11/09/2023	11/10/2023
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**SAR by 20B Saturated Paste**

SAR	3.43	0.0100	SAR	1	B3K0919	11/09/2023	11/13/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.886	0.00500	mmhos/cm	1	B3K0924	11/09/2023	11/10/2023
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**Table 915 metals by EPA 6020B**

Arsenic	1.59	0.0921	mg/kg	10	B3K1006	11/10/2023	11/15/2023
Barium	37.2	9.21	"	"	"	"	"
Cadmium	ND	0.0921	"	"	"	"	"
Copper	ND	9.21	"	"	"	"	"

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

16.23.36-BG-03@3'  
11/8/2023 8:46:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-11 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	ND	9.21	mg/kg	10	B3K1006	11/10/2023	11/15/2023
Nickel	ND	9.21	"	"	"	"	"
Selenium	ND	0.0921	"	"	"	"	"
Silver	ND	0.0921	"	"	"	"	"
Zinc	ND	92.1	"	"	"	"	"

**Total Metals by 7196 A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L716305	11/08/2023	11/10/2023
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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 - Bryant 16,23,36-30

**16.23.36-BG-03@6'**  
**11/8/2023 8:48:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-12 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.129	0.0983	mg/L	1	B3K0916	11/09/2023	11/10/2023
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.23	0.499	meq/L	10	[CALC]	11/09/2023	11/13/2023
Magnesium	1.06	0.823	"	"	"	"	"
Sodium	3.54	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.30		pH Units	1	B3K0924	11/09/2023	11/10/2023
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**SAR by 20B Saturated Paste**

SAR	3.31	0.0100	SAR	1	B3K0919	11/09/2023	11/13/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.654	0.00500	mmhos/cm	1	B3K0924	11/09/2023	11/10/2023
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**Table 915 metals by EPA 6020B**

Arsenic	1.55	0.0858	mg/kg	10	B3K1006	11/10/2023	11/15/2023
Barium	36.9	8.58	"	"	"	"	"
Cadmium	ND	0.0858	"	"	"	"	"
Copper	ND	8.58	"	"	"	"	"

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

**16.23.36-BG-03@6'**  
**11/8/2023 8:48:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-12 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	ND	8.58	mg/kg	10	B3K1006	11/10/2023	11/15/2023
Nickel	ND	8.58	"	"	"	"	"
Selenium	ND	0.0858	"	"	"	"	"
Silver	ND	0.0858	"	"	"	"	"
Zinc	ND	85.8	"	"	"	"	"

**Total Metals by 7196 A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L716305	11/08/2023	11/10/2023
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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

**16.23.36-BG-04@3'**  
**11/8/2023 8:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-13 (Soil)**

### Boron (DTPA Sorbitol)

Boron	0.235	0.0976	mg/L	1	B3K0916	11/09/2023	11/10/2023
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### Metals by Saturated Paste by EPA 6010

Calcium	0.829	0.499	meq/L	10	[CALC]	11/09/2023	11/13/2023
Magnesium	0.909	0.823	"	"	"	"	"
Sodium	7.19	0.435	"	"	"	"	"

### pH in Soil by 9045D

pH	8.38		pH Units	1	B3K0924	11/09/2023	11/10/2023
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### SAR by 20B Saturated Paste

SAR	7.71	0.0100	SAR	1	B3K0919	11/09/2023	11/13/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.961	0.00500	mmhos/cm	1	B3K0924	11/09/2023	11/10/2023
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### Table 915 metals by EPA 6020B

Arsenic	3.69	0.0877	mg/kg	10	B3K1006	11/10/2023	11/15/2023
Barium	54.5	8.77	"	"	"	"	"
Cadmium	ND	0.0877	"	"	"	"	"
Copper	ND	8.77	"	"	"	"	"

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

16.23.36-BG-04@3'  
11/8/2023 8:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-13 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	ND	8.77	mg/kg	10	B3K1006	11/10/2023	11/15/2023
Nickel	ND	8.77	"	"	"	"	"
Selenium	0.143	0.0877	"	"	"	"	"
Silver	ND	0.0877	"	"	"	"	"
Zinc	ND	87.7	"	"	"	"	"

**Total Metals by 7196 A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L716305	11/08/2023	11/10/2023
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6855 West 119th Avenue  
Broomfield CO 80020

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

**16.23.36-BG-04@6'**  
**11/8/2023 8:52:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-14 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.288	0.0972	mg/L	1	B3K0916	11/09/2023	11/10/2023
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.71	0.499	meq/L	10	[CALC]	11/09/2023	11/13/2023
Magnesium	1.52	0.823	"	"	"	"	"
Sodium	7.29	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.33	pH Units	1	B3K0924	11/09/2023	11/10/2023
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**SAR by 20B Saturated Paste**

SAR	5.73	0.0100	SAR	1	B3K0919	11/09/2023	11/13/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.13	0.00500	mmhos/cm	1	B3K0924	11/09/2023	11/10/2023
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**Table 915 metals by EPA 6020B**

Arsenic	2.12	0.0858	mg/kg	10	B3K1006	11/10/2023	11/15/2023
Barium	37.8	8.58	"	"	"	"	"
Cadmium	ND	0.0858	"	"	"	"	"
Copper	ND	8.58	"	"	"	"	"

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

16.23.36-BG-04@6'  
11/8/2023 8:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-14 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	ND	8.58	mg/kg	10	B3K1006	11/10/2023	11/15/2023
Nickel	ND	8.58	"	"	"	"	"
Selenium	ND	0.0858	"	"	"	"	"
Silver	ND	0.0858	"	"	"	"	"
Zinc	ND	85.8	"	"	"	"	"

**Total Metals by 7196 A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L716305	11/08/2023	11/10/2023
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Origins Laboratory, Inc.



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6855 West 119th Avenue  
Broomfield CO 80020

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

16-FL-B02@4'

11/8/2023 12:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-15 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0967	mg/L	1	B3K0916	11/09/2023	11/10/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K0802	11/08/2023	11/09/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.8 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0829	11/08/2023	11/09/2023	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	104 %	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 - Bryant 16,23,36-30

16-FL-B02@4'

11/8/2023 12:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-15 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.0 %	70-130				B3K08 29	11/08/2023	11/09/2023	
Surrogate: 4-Bromofluorobenzene	110 %	70-130				"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.634	0.499	meq/L	10	[CALC]		11/09/2023	11/13/2023	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	ND	0.435	"	"	"		"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K0827	11/08/2023	11/09/2023	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

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

16-FL-B02@4'

11/8/2023 12:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-15 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND	0.020	mg/kg	1	B3K0827	11/08/2023	11/09/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	104 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	94.7 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.5 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.17	pH Units	1	B3K0924	11/09/2023	11/10/2023
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**SAR by 20B Saturated Paste**

SAR	0.157	0.0100	SAR	1	B3K0919	11/09/2023	11/13/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.136	0.00500	mmhos/cm	1	B3K0924	11/09/2023	11/10/2023
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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 - Bryant 16,23,36-30

16-FL-B02@4'

11/8/2023 12:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-15 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.79	0.0899	mg/kg	10	B3K1006	11/10/2023	11/15/2023
Barium	49.8	8.99	"	"	"	"	"
Cadmium	ND	0.0899	"	"	"	"	"
Copper	ND	8.99	"	"	"	"	"
Lead	ND	8.99	"	"	"	"	"
Nickel	ND	8.99	"	"	"	"	"
Selenium	0.143	0.0899	"	"	"	"	"
Silver	ND	0.0899	"	"	"	"	"
Zinc	ND	89.9	"	"	"	"	"

**Total Metals by 7196 A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L716305	11/08/2023	11/10/2023
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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

23-FL-B02@4'

11/8/2023 12:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-16 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0985	mg/L	1	B3K0916	11/09/2023	11/10/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K0802	11/08/2023	11/09/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.1 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0829	11/08/2023	11/09/2023	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	104 %	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 - Bryant 16,23,36-30

23-FL-B02@4'

11/8/2023 12:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-16 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.9 %	70-130				B3K08 29	11/08/2023	11/09/2023	
Surrogate: 4-Bromofluorobenzene	103 %	70-130				"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.807	0.499	meq/L	10	[CALC]		11/09/2023	11/13/2023	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	ND	0.435	"	"	"		"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K0827	11/08/2023	11/09/2023	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

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

23-FL-B02@4'

11/8/2023 12:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-16 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND	0.020	mg/kg	1	B3K0827	11/08/2023	11/09/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	103 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	96.7 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.7 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.14	pH Units	1	B3K0924	11/09/2023	11/10/2023
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**SAR by 20B Saturated Paste**

SAR	0.291	0.0100	SAR	1	B3K0919	11/09/2023	11/13/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.173	0.00500	mmhos/cm	1	B3K0924	11/09/2023	11/10/2023
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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 - Bryant 16,23,36-30

23-FL-B02@4'

11/8/2023 12:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-16 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.45	0.0836	mg/kg	10	B3K1006	11/10/2023	11/15/2023
Barium	32.2	8.36	"	"	"	"	"
Cadmium	ND	0.0836	"	"	"	"	"
Copper	ND	8.36	"	"	"	"	"
Lead	ND	8.36	"	"	"	"	"
Nickel	ND	8.36	"	"	"	"	"
Selenium	ND	0.0836	"	"	"	"	"
Silver	ND	0.0836	"	"	"	"	"
Zinc	ND	83.6	"	"	"	"	"

**Total Metals by 7196 A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L716305	11/08/2023	11/10/2023
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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

16-GW01

11/8/2023 8:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311214-17 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3K0830	11/08/2023	11/08/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	"	"	U
Benzene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Naphthalene	ND	2.00	"	"	"	"	"	U
Toluene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	91.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	111 %	70-130	"	"	"

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

23-GW01

11/8/2023 8:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311214-18 (Water)

## BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3K0830	11/08/2023	11/08/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	"	"	U
Benzene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Naphthalene	ND	2.00	"	"	"	"	"	U
Toluene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	89.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130	"	"	"

Origins Laboratory, Inc.



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6855 West 119th Avenue  
Broomfield CO 80020

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

## 36-GW01

11/8/2023 8:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y311214-19 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3K0830	11/08/2023	11/08/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	"	"	U
Benzene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Naphthalene	ND	2.00	"	"	"	"	"	U
Toluene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	90.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	112 %	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

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K0802 - EPA 3550B</b>										
<b>Blank (B3K0802-BLK1)</b>					Prepared: 11/08/2023 Analyzed: 11/08/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		89.4	50-150			

Origins Laboratory, Inc.



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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 B3K0802 - EPA 3550B**

**LCS (B3K0802-BS1)**

Prepared: 11/08/2023 Analyzed: 11/08/2023

Diesel (C10-C28)	860	50.0	mg/kg	1000		86.0	70-130			
Residual Range Organics (C28-C40)	971	200	"	1000		97.1	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	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
<b>Batch B3K0802 - EPA 3550B</b>										
<b>Matrix Spike (B3K0802-MS1)</b>		<b>Source: Y311169-04</b>			Prepared: 11/08/2023 Analyzed: 11/08/2023					
Diesel (C10-C28)	914	50.0	mg/kg	1000	ND	91.4	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130			
Surrogate: o-Terphenyl	44		"	49.8		87.6	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
<b>Batch B3K0802 - EPA 3550B</b>										
<b>Matrix Spike Dup (B3K0802-MSD1)</b>	<b>Source: Y311169-04</b>				Prepared: 11/08/2023 Analyzed: 11/08/2023					
Diesel (C10-C28)	939	50.0	mg/kg	1000	ND	93.9	70-130	2.70	35	
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130	3.41	35	
Surrogate: o-Terphenyl	46		"	49.8		92.6	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
<b>Batch B3K0829 - EPA 5030 (soil)</b>										
<b>Blank (B3K0829-BLK1)</b>					Prepared: 11/08/2023 Analyzed: 11/08/2023					
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	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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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
<b>Batch B3K0829 - EPA 5030 (soil)</b>										
<b>LCS (B3K0829-BS1)</b>					Prepared: 11/08/2023 Analyzed: 11/08/2023					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.0962	0.00200	"	0.100		96.2	70-130			
Ethylbenzene	0.0948	0.00200	"	0.100		94.8	70-130			
Naphthalene	0.0977	0.00380	"	0.100		97.7	70-130			
Toluene	0.0969	0.00200	"	0.100		96.9	70-130			
o-Xylene	0.0944	0.00200	"	0.100		94.4	70-130			
m,p-Xylene	0.193	0.00400	"	0.200		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.8	70-130			

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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
<b>Batch B3K0829 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3K0829-MS1)</b>		<b>Source: Y311169-04</b>			Prepared: 11/08/2023 Analyzed: 11/08/2023					
1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100	0.0186	92.9	70-130			
1,3,5-Trimethylbenzene	0.0959	0.00200	"	0.100	0.0110	85.0	70-130			
Benzene	0.0996	0.00200	"	0.100	0.00306	96.6	70-130			
Ethylbenzene	0.0954	0.00200	"	0.100	0.00230	93.1	70-130			
Naphthalene	0.102	0.00380	"	0.100	0.000980	101	70-130			
Toluene	0.0919	0.00200	"	0.100	ND	91.9	70-130			
o-Xylene	0.0941	0.00200	"	0.100	ND	94.1	70-130			
m,p-Xylene	0.198	0.00400	"	0.200	0.0124	92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125		80.7	70-130			

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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
<b>Batch B3K0829 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3K0829-MSD1)</b>	<b>Source: Y311169-04</b>				Prepared: 11/08/2023 Analyzed: 11/08/2023					
1,2,4-Trimethylbenzene	0.119	0.00200	mg/kg	0.100	0.0186	100	70-130	6.39	20	
1,3,5-Trimethylbenzene	0.116	0.00200	"	0.100	0.0110	105	70-130	19.1	20	
Benzene	0.101	0.00200	"	0.100	0.00306	97.6	70-130	1.04	20	
Ethylbenzene	0.113	0.00200	"	0.100	0.00230	110	70-130	16.5	20	
Naphthalene	0.110	0.00380	"	0.100	0.000980	109	70-130	7.74	20	
Toluene	0.0901	0.00200	"	0.100	ND	90.1	70-130	1.98	20	
o-Xylene	0.111	0.00200	"	0.100	ND	111	70-130	16.3	20	
m,p-Xylene	0.233	0.00400	"	0.200	0.0124	110	70-130	16.1	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.3	70-130			

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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
<b>Batch B3K0830 - EPA 5030B (Water)</b>										
<b>Blank (B3K0830-BLK1)</b>					Prepared: 11/08/2023 Analyzed: 11/08/2023					
1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	56		"	62.5		89.2	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

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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
<b>Batch B3K0830 - EPA 5030B (Water)</b>										
<b>LCS (B3K0830-BS1)</b>					Prepared: 11/08/2023 Analyzed: 11/08/2023					
1,2,4-Trimethylbenzene	53.8	2.00	ug/L	50.0		108	70-130			
1,3,5-Trimethylbenzene	53.7	2.00	"	50.0		107	70-130			
Benzene	58.9	1.00	"	50.0		118	70-130			
Ethylbenzene	57.6	1.00	"	50.0		115	70-130			
m,p-Xylene	117	2.00	"	100		117	70-130			
Naphthalene	45.4	2.00	"	50.0		90.7	70-130			
o-Xylene	55.9	1.00	"	50.0		112	70-130			
Toluene	55.0	1.00	"	50.0		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	58		"	62.5		92.6	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		108	70-130			

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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
<b>Batch B3K0830 - EPA 5030B (Water)</b>										
<b>Matrix Spike (B3K0830-MS1)</b>		<b>Source: Y311209-01</b>			Prepared: 11/08/2023 Analyzed: 11/08/2023					
1,2,4-Trimethylbenzene	47.7	2.00	ug/L	50.0	1.77	91.8	70-130			
1,3,5-Trimethylbenzene	47.6	2.00	"	50.0	0.810	93.5	70-130			
Benzene	48.2	1.00	"	50.0	3.31	89.8	70-130			
Ethylbenzene	52.3	1.00	"	50.0	1.50	102	70-130			
m,p-Xylene	107	2.00	"	100	4.59	102	70-130			
Naphthalene	35.7	2.00	"	50.0	2.88	65.6	70-130			QM-07
o-Xylene	50.0	1.00	"	50.0	1.20	97.7	70-130			
Toluene	49.6	1.00	"	50.0	4.42	90.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	72		"	62.5		115	70-130			

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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
<b>Batch B3K0830 - EPA 5030B (Water)</b>										
<b>Matrix Spike Dup (B3K0830-MSD1)</b>			<b>Source: Y311209-01</b>		Prepared: 11/08/2023 Analyzed: 11/08/2023					
1,2,4-Trimethylbenzene	69.6	2.00	ug/L	50.0	1.77	136	70-130	37.4	20	QM-07
1,3,5-Trimethylbenzene	69.6	2.00	"	50.0	0.810	138	70-130	37.7	20	QM-07
Benzene	68.5	1.00	"	50.0	3.31	130	70-130	34.7	20	QR-02
Ethylbenzene	74.8	1.00	"	50.0	1.50	147	70-130	35.3	20	QM-07
m,p-Xylene	153	2.00	"	100	4.59	149	70-130	35.5	20	QM-07
Naphthalene	53.5	2.00	"	50.0	2.88	101	70-130	40.0	20	QR-02
o-Xylene	73.2	1.00	"	50.0	1.20	144	70-130	37.6	20	QM-07
Toluene	69.0	1.00	"	50.0	4.42	129	70-130	32.7	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.3	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	72		"	62.5		115	70-130			

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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 B3K1005 - EPA 3050B**

**Blank (B3K1005-BLK1)**

Prepared: 11/10/2023 Analyzed: 11/14/2023

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 (B3K1005-BS1)**

Prepared: 11/10/2023 Analyzed: 11/14/2023

Arsenic	0.0534	0.000100	mg/kg	0.0500	107	80-120
Barium	5.31	0.0100	"	5.00	106	80-120
Cadmium	0.0530	0.000100	"	0.0500	106	80-120
Copper	0.571	0.0100	"	0.500	114	80-120
Lead	0.0516	0.0100	"	0.0500	103	80-120
Nickel	0.0513	0.0100	"	0.0500	103	80-120
Selenium	0.0530	0.000100	"	0.0500	106	80-120
Silver	0.0450	0.000100	"	0.0500	90.1	80-120
Zinc	0.526	0.100	"	0.500	105	80-120

**Matrix Spike (B3K1005-MS1)**

**Source: Y310651-05**

Prepared: 11/10/2023 Analyzed: 11/14/2023

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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 B3K1005 - EPA 3050B**

Matrix Spike (B3K1005-MS1)		Source: Y310651-05			Prepared: 11/10/2023 Analyzed: 11/14/2023					
Arsenic	5.87	0.0920	mg/kg	4.60	0.640	114	75-125			
Barium	512	9.20	"	460	8.70	109	75-125			
Cadmium	5.12	0.0920	"	4.60	0.0252	111	75-125			
Copper	55.3	9.20	"	46.0	1.85	116	75-125			
Lead	6.45	9.20	"	4.60	1.47	108	75-125			
Nickel	7.09	9.20	"	4.60	2.31	104	75-125			
Selenium	4.87	0.0920	"	4.60	ND	106	75-125			
Silver	4.25	0.0920	"	4.60	0.0108	92.1	75-125			
Zinc	59.3	92.0	"	46.0	ND	129	75-125			QM-07

Matrix Spike Dup (B3K1005-MSD1)		Source: Y310651-05			Prepared: 11/10/2023 Analyzed: 11/14/2023					
Arsenic	6.69	0.0973	mg/kg	4.86	0.640	124	75-125	13.1	20	
Barium	557	9.73	"	486	8.70	113	75-125	8.46	20	
Cadmium	5.74	0.0973	"	4.86	0.0252	118	75-125	11.5	20	
Copper	63.7	9.73	"	48.6	1.85	127	75-125	14.1	20	QM-07
Lead	7.60	9.73	"	4.86	1.47	126	75-125	16.4	20	QM-07
Nickel	13.7	9.73	"	4.86	2.31	234	75-125	63.5	20	QM-07
Selenium	5.76	0.0973	"	4.86	ND	118	75-125	16.7	20	
Silver	4.77	0.0973	"	4.86	0.0108	97.7	75-125	11.5	20	
Zinc	65.6	97.3	"	48.6	ND	135	75-125	10.0	20	QM-07

**Batch B3K1006 - EPA 3050B**

Blank (B3K1006-BLK1)		Prepared: 11/10/2023 Analyzed: 11/15/2023								
Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							

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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 B3K1006 - EPA 3050B**

**Blank (B3K1006-BLK1)**

Prepared: 11/10/2023 Analyzed: 11/15/2023

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

**LCS (B3K1006-BS1)**

Prepared: 11/10/2023 Analyzed: 11/15/2023

Arsenic	0.0521	0.000100	mg/kg	0.0500	104	80-120
Barium	5.33	0.0100	"	5.00	107	80-120
Cadmium	0.0525	0.000100	"	0.0500	105	80-120
Copper	0.521	0.0100	"	0.500	104	80-120
Lead	0.0508	0.0100	"	0.0500	102	80-120
Nickel	0.0505	0.0100	"	0.0500	101	80-120
Selenium	0.0533	0.000100	"	0.0500	107	80-120
Silver	0.0540	0.000100	"	0.0500	108	80-120
Zinc	0.507	0.100	"	0.500	101	80-120

**Matrix Spike (B3K1006-MS1)**

**Source: Y311214-08**

Prepared: 11/10/2023 Analyzed: 11/15/2023

Arsenic	7.26	0.0916	mg/kg	4.58	3.25	87.6	75-125
Barium	534	9.16	"	458	63.0	103	75-125
Cadmium	5.04	0.0916	"	4.58	0.0926	108	75-125
Copper	56.4	9.16	"	45.8	7.27	107	75-125
Lead	12.2	9.16	"	4.58	9.58	56.7	75-125
Nickel	11.7	9.16	"	4.58	8.14	77.2	75-125
Selenium	5.22	0.0916	"	4.58	0.0753	112	75-125
Silver	5.07	0.0916	"	4.58	0.0398	110	75-125

QM-07

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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
<b>Batch B3K1006 - EPA 3050B</b>										
<b>Matrix Spike (B3K1006-MS1)</b>		<b>Source: Y311214-08</b>			Prepared: 11/10/2023 Analyzed: 11/15/2023					
Zinc	73.1	91.6	mg/kg	45.8	26.0	103	75-125			
<b>Matrix Spike Dup (B3K1006-MSD1)</b>		<b>Source: Y311214-08</b>			Prepared: 11/10/2023 Analyzed: 11/15/2023					
Arsenic	7.46	0.0936	mg/kg	4.68	3.25	90.2	75-125	2.81	20	
Barium	541	9.36	"	468	63.0	102	75-125	1.22	20	
Cadmium	5.18	0.0936	"	4.68	0.0926	109	75-125	2.71	20	
Copper	57.5	9.36	"	46.8	7.27	107	75-125	2.07	20	
Lead	12.2	9.36	"	4.68	9.58	56.0	75-125	0.201	20	QM-07
Nickel	11.7	9.36	"	4.68	8.14	76.5	75-125	0.359	20	
Selenium	4.58	0.0936	"	4.68	0.0753	96.3	75-125	13.0	20	
Silver	5.24	0.0936	"	4.68	0.0398	111	75-125	3.33	20	
Zinc	72.1	93.6	"	46.8	26.0	98.5	75-125	1.43	20	

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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 B3K0827 - EPA 3580**

**Blank (B3K0827-BLK1)**

Prepared: 11/08/2023 Analyzed: 11/08/2023

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	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		96.7	60-130			
Surrogate: Pyrene-d10	200		"	200		98.1	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.2	60-130			

**LCS (B3K0827-BS1)**

Prepared: 11/08/2023 Analyzed: 11/08/2023

1-Methylnaphthalene	0.201	0.002	mg/kg	0.200		100	70-130
2-Methylnaphthalene	0.199	0.002	"	0.200		99.6	70-130
Acenaphthene	0.193	0.020	"	0.200		96.6	70-130
Anthracene	0.184	0.020	"	0.200		92.0	70-130

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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 B3K0827 - EPA 3580**

**LCS (B3K0827-BS1)**

Prepared: 11/08/2023 Analyzed: 11/08/2023

Benzo (a) anthracene	0.194	0.005	mg/kg	0.200		97.2	70-130			
Benzo (a) pyrene	0.190	0.020	"	0.200		95.0	70-130			
Benzo (b) fluoranthene	0.193	0.020	"	0.200		96.5	70-130			
Benzo (g,h,i) perylene	0.203	0.020	"	0.200		101	70-130			
Benzo (k) fluoranthene	0.188	0.020	"	0.200		93.9	70-130			
Chrysene	0.197	0.020	"	0.200		98.4	70-130			
Dibenz (a,h) anthracene	0.192	0.020	"	0.200		96.0	70-130			
Fluoranthene	0.206	0.020	"	0.200		103	70-130			
Fluorene	0.200	0.020	"	0.200		100	70-130			
Indeno (1,2,3-cd) pyrene	0.186	0.020	"	0.200		92.8	70-130			
Naphthalene	0.197	0.002	"	0.200		98.3	70-130			
Phenanthrene	0.186	0.020	"	0.200		93.0	70-130			
Pyrene	0.185	0.020	"	0.200		92.7	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		96.3	60-130			
Surrogate: Pyrene-d10	190		"	200		97.3	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.5	60-130			

**Matrix Spike (B3K0827-MS1)**

Source: Y311211-01

Prepared: 11/08/2023 Analyzed: 11/08/2023

1-Methylnaphthalene	0.342	0.002	mg/kg	0.200	0.094	124	70-130			
2-Methylnaphthalene	0.428	0.002	"	0.200	0.164	132	70-130			QM-07
Acenaphthene	0.239	0.020	"	0.200	0.039	100	70-130			
Anthracene	0.249	0.020	"	0.200	ND	124	70-130			
Benzo (a) anthracene	0.199	0.005	"	0.200	0.001	99.0	70-130			
Benzo (a) pyrene	0.191	0.020	"	0.200	ND	95.7	70-130			
Benzo (b) fluoranthene	0.211	0.020	"	0.200	0.002	104	70-130			
Benzo (g,h,i) perylene	0.212	0.020	"	0.200	0.002	105	70-130			

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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 B3K0827 - EPA 3580**

Matrix Spike (B3K0827-MS1)		Source: Y311211-01			Prepared: 11/08/2023 Analyzed: 11/08/2023					
Benzo (k) fluoranthene	0.193	0.020	mg/kg	0.200	0.002	95.7	70-130			
Chrysene	0.230	0.020	"	0.200	0.008	111	70-130			
Dibenz (a,h) anthracene	0.204	0.020	"	0.200	ND	102	70-130			
Fluoranthene	0.229	0.020	"	0.200	0.003	113	70-130			
Fluorene	0.263	0.020	"	0.200	0.048	108	70-130			
Indeno (1,2,3-cd) pyrene	0.187	0.020	"	0.200	ND	93.3	70-130			
Naphthalene	0.216	0.002	"	0.200	0.009	103	70-130			
Phenanthrene	0.330	0.020	"	0.200	0.105	113	70-130			
Pyrene	0.188	0.020	"	0.200	0.004	92.0	70-130			
Surrogate: Fluorene-d10	220		ug/kg	200		109	60-130			
Surrogate: Anthracene-d10	200		"	200		99.7	60-130			
Surrogate: Pyrene-d10	180		"	200		91.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.9	60-130			

Matrix Spike Dup (B3K0827-MSD1)		Source: Y311211-01			Prepared: 11/08/2023 Analyzed: 11/08/2023					
1-Methylnaphthalene	0.313	0.002	mg/kg	0.200	0.094	109	70-130	9.02	20	
2-Methylnaphthalene	0.374	0.002	"	0.200	0.164	105	70-130	13.5	20	
Acenaphthene	0.226	0.020	"	0.200	0.039	93.7	70-130	5.53	20	
Anthracene	0.223	0.020	"	0.200	ND	112	70-130	10.9	20	
Benzo (a) anthracene	0.210	0.005	"	0.200	0.001	104	70-130	5.18	20	
Benzo (a) pyrene	0.187	0.020	"	0.200	ND	93.3	70-130	2.59	20	
Benzo (b) fluoranthene	0.203	0.020	"	0.200	0.002	101	70-130	3.55	20	
Benzo (g,h,i) perylene	0.206	0.020	"	0.200	0.002	102	70-130	2.91	20	
Benzo (k) fluoranthene	0.183	0.020	"	0.200	0.002	90.6	70-130	5.43	20	
Chrysene	0.224	0.020	"	0.200	0.008	108	70-130	2.43	20	
Dibenz (a,h) anthracene	0.200	0.020	"	0.200	ND	100	70-130	1.81	20	
Fluoranthene	0.229	0.020	"	0.200	0.003	113	70-130	0.0570	20	

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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
<b>Batch B3K0827 - EPA 3580</b>										
<b>Matrix Spike Dup (B3K0827-MSD1)</b>		<b>Source: Y311211-01</b>			Prepared: 11/08/2023 Analyzed: 11/08/2023					
Fluorene	0.247	0.020	mg/kg	0.200	0.048	100	70-130	6.22	20	
Indeno (1,2,3-cd) pyrene	0.194	0.020	"	0.200	ND	97.1	70-130	3.95	20	
Naphthalene	0.205	0.002	"	0.200	0.009	97.9	70-130	4.96	20	
Phenanthrene	0.297	0.020	"	0.200	0.105	96.4	70-130	10.4	20	
Pyrene	0.190	0.020	"	0.200	0.004	92.8	70-130	0.850	20	
Surrogate: Fluorene-d10	220		ug/kg	200		108	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	190		"	200		93.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.7	60-130			

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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 B3K0915 - DTPA Sorbitol Preparation**

**Blank (B3K0915-BLK1)**

Prepared: 11/09/2023 Analyzed: 11/10/2023

Boron ND 0.100 mg/L

**Duplicate (B3K0915-DUP1)**

**Source: Y311211-01**

Prepared: 11/09/2023 Analyzed: 11/10/2023

Boron 0.886 0.0983 mg/L 0.464 62.5 50 QR-DUP

**Batch B3K0916 - DTPA Sorbitol Preparation**

**Blank (B3K0916-BLK1)**

Prepared: 11/09/2023 Analyzed: 11/10/2023

Boron ND 0.100 mg/L

**Duplicate (B3K0916-DUP1)**

**Source: Y311214-12**

Prepared: 11/09/2023 Analyzed: 11/10/2023

Boron 0.136 0.0989 mg/L 0.129 5.50 50

**Batch B3K0918 - Saturated Paste Metals**

**Blank (B3K0918-BLK1)**

Prepared: 11/09/2023 Analyzed: 11/13/2023

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 (B3K0918-DUP1)**

**Source: Y311169-04**

Prepared: 11/09/2023 Analyzed: 11/13/2023

Calcium PPM 9.18 10.0 mg/L 10.3 11.3 50

SAR ND 0.0100 SAR 7.14 200

Magnesium PPM 9.73 10.0 mg/L 10.2 4.81 50

Sodium PPM 135 10.0 " 135 0.251 50

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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 B3K0919 - Saturated Paste Metals**

**Blank (B3K0919-BLK1)**

Prepared: 11/09/2023 Analyzed: 11/13/2023

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

**Duplicate (B3K0919-DUP1)**

**Source: Y311214-07**

Prepared: 11/09/2023 Analyzed: 11/13/2023

SAR	ND	0.0100	SAR	2.86			200
Calcium PPM	6.14	10.0	mg/L	5.61		9.02	50
Magnesium PPM	3.36	10.0	"	3.18		5.50	50
Sodium PPM	37.3	10.0	"	34.2		8.75	50

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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 B3K0923 - Saturated Paste pH/EC**

**Blank (B3K0923-BLK1)**

Prepared: 11/09/2023 Analyzed: 11/10/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3K0923-DUP1)**

**Source: Y311169-04**

Prepared: 11/09/2023 Analyzed: 11/10/2023

Specific Conductance (EC)	0.743	0.00500	mmhos/cm	0.755	1.68	25
pH	8.27		pH Units	8.31	0.483	25

**Batch B3K0924 - Saturated Paste pH/EC**

**Blank (B3K0924-BLK1)**

Prepared: 11/09/2023 Analyzed: 11/10/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3K0924-DUP1)**

**Source: Y311214-07**

Prepared: 11/09/2023 Analyzed: 11/10/2023

pH	8.16		pH Units	8.01	1.86	25
Specific Conductance (EC)	0.268	0.00500	mmhos/cm	0.251	6.78	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 7196 A - Quality Control  
Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L716305 -</b>										
<b>DUP (L 89252-DUP)</b>		<b>Source: Y311214-14</b>			Prepared: Analyzed: 11/10/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 89252-MS)</b>		<b>Source: Y311214-14</b>			Prepared: Analyzed: 11/10/2023					
Chromium, Hexavalent	35.4	2.5	mg/Kg	39.3	<1.22	90	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 11/10/2023					
Chromium, Hexavalent	7	0.5	mg/Kg	8		88	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 11/10/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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
<b>Batch L716303 -</b>										
<b>DUP (L 89245-DUP)</b>		<b>Source: Y311214-07</b>			Prepared: Analyzed: 11/10/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 89245-MS)</b>		<b>Source: Y311214-07</b>			Prepared: Analyzed: 11/10/2023					
Chromium, Hexavalent	35.1	2.5	mg/Kg	39.5	<1.22	89	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 11/10/2023					
Chromium, Hexavalent	6.51	0.5	mg/Kg	8		81	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 11/10/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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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.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.

A handwritten signature in black ink, appearing to read "Bynon".

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December 01, 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 09, 2023. This project is associated with Origins project number Y311270-01.

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 - Bryant 16,23,36-30

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
36-FL-B02@4'	Y311270-01	Soil	November 9, 2023 13:00	11/09/2023 15:56

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

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4311270

Client: Tasman

Client Project ID: Bryant 16,23,36-30

Checklist Completed by: FHS

Shipped Via: HD

Date/time completed: 11/9/12

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

Airbill #: N/A

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

Cooler Number/Temperature: 1 15.2 °C 1 °C 1 °C (Describe) 1 °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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Sam Anderson  
Reviewed by (Project Manager)

11/9/12  
Date/Time Reviewed

Origins Laboratory, Inc.

*J. Bynon*

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 - Bryant 16,23,36-30

36-FL-B02@4'

11/9/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311270-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.243	0.101	mg/L	1	B3K1021	11/10/2023	11/15/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K0935	11/09/2023	11/10/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	75.5 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0936	11/09/2023	11/10/2023	U
1,3,5-Trimethylbenzene	0.00844	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	0.00574	0.00200	"	"	"	"	"	
Xylenes, total	0.0251	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.19	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.6 %	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 - Bryant 16,23,36-30

36-FL-B02@4'

11/9/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311270-01 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	103 %	70-130	B3K09 36	11/09/2023	11/10/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	1.52	0.499	meq/L	10	[CALC]	11/10/2023	11/13/2023
Magnesium	0.837	0.823	"	"	"	"	"
Sodium	0.448	0.435	"	"	"	"	"

## PAH by EPA 8270E

1-Methylnaphthalene	0.005	0.002	mg/kg	1	B3K0939	11/09/2023	11/10/2023	
2-Methylnaphthalene	0.012	0.002	"	"	"	"	"	
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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6855 West 119th Avenue  
Broomfield CO 80020

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

**36-FL-B02@4'**  
**11/9/2023 1:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311270-01 (Soil)**

**PAH by EPA 8270E**

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B3K0939	11/09/2023	11/10/2023	U
Naphthalene	<b>0.003</b>	0.002	"	"	"	"	"	
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	104 %	60-130	"	"	"
Surrogate: Anthracene-d10	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	96.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.8 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	<b>8.39</b>	pH Units	1	B3K1026	11/10/2023	11/11/2023
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**SAR by 20B Saturated Paste**

SAR	<b>0.413</b>	0.0100	SAR	1	B3K1018	11/10/2023	11/13/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.286</b>	0.00500	mmhos/cm	1	B3K1026	11/10/2023	11/11/2023
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**Table 915 metals by EPA 6020B**

Arsenic	<b>3.49</b>	0.0922	mg/kg	10	B3K1405	11/14/2023	11/16/2023
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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-B02@4'

11/9/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311270-01 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	122	9.22	mg/kg	10	B3K1405	11/14/2023	11/16/2023
Cadmium	0.201	0.0922	"	"	"	"	"
Copper	14.9	9.22	"	"	"	"	"
Lead	10.4	9.22	"	"	"	"	"
Nickel	14.5	9.22	"	"	"	"	"
Selenium	0.282	0.0922	"	"	"	"	"
Silver	ND	0.0922	"	"	"	"	"
Zinc	ND	92.2	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L717223	11/09/2023	11/15/2023
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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

36-FL-B02@4'

11/9/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311270-01RE2 (Soil)

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0936	11/09/2023	11/23/2023	U
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Surrogate: 1,2-Dichloroethane-d4	111 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.3 %	70-130	"	"	"

Origins Laboratory, Inc.



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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
<b>Batch B3K0935 - EPA 3550B</b>										
<b>Blank (B3K0935-BLK1)</b>					Prepared: 11/09/2023 Analyzed: 11/09/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		83.0	50-150			

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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
<b>Batch B3K0935 - EPA 3550B</b>										
<b>LCS (B3K0935-BS1)</b>					Prepared: 11/09/2023 Analyzed: 11/09/2023					
Diesel (C10-C28)	948	50.0	mg/kg	1000		94.8	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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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
<b>Batch B3K0935 - EPA 3550B</b>										
<b>Matrix Spike (B3K0935-MS1)</b>		<b>Source: Y311254-21</b>			Prepared: 11/09/2023 Analyzed: 11/09/2023					
Diesel (C10-C28)	874	50.0	mg/kg	1000	ND	87.4	70-130			
Residual Range Organics (C28-C40)	928	200	"	1000	ND	92.8	70-130			
Surrogate: o-Terphenyl	40		"	49.8		79.8	50-150			

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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
<b>Batch B3K0935 - EPA 3550B</b>										
<b>Matrix Spike Dup (B3K0935-MSD1)</b>		<b>Source: Y311254-21</b>			Prepared: 11/09/2023 Analyzed: 11/09/2023					
Diesel (C10-C28)	976	50.0	mg/kg	1000	ND	97.6	70-130	11.0	35	
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130	12.5	35	
Surrogate: o-Terphenyl	41		"	49.8		82.3	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 - 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
<b>Batch B3K0936 - EPA 5030 (soil)</b>										
<b>Blank (B3K0936-BLK1)</b>					Prepared: 11/09/2023 Analyzed: 11/09/2023					
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	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.5	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 - 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
<b>Batch B3K0936 - EPA 5030 (soil)</b>										
<b>LCS (B3K0936-BS1)</b>					Prepared: 11/09/2023 Analyzed: 11/09/2023					
1,2,4-Trimethylbenzene	0.0942	0.00200	mg/kg	0.100		94.2	70-130			
1,3,5-Trimethylbenzene	0.0950	0.00200	"	0.100		95.0	70-130			
Benzene	0.0964	0.00200	"	0.100		96.4	70-130			
Ethylbenzene	0.0963	0.00200	"	0.100		96.3	70-130			
Naphthalene	0.0945	0.00380	"	0.100		94.5	70-130			
Toluene	0.0925	0.00200	"	0.100		92.5	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.192	0.00400	"	0.200		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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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
<b>Batch B3K0936 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3K0936-MS1)</b>		<b>Source: Y311254-21</b>			Prepared: 11/09/2023 Analyzed: 11/09/2023					
1,2,4-Trimethylbenzene	0.0763	0.00200	mg/kg	0.100	ND	76.3	70-130			
1,3,5-Trimethylbenzene	0.0758	0.00200	"	0.100	ND	75.8	70-130			
Benzene	0.0847	0.00200	"	0.100	ND	84.7	70-130			
Ethylbenzene	0.0796	0.00200	"	0.100	ND	79.6	70-130			
Naphthalene	0.0811	0.00380	"	0.100	ND	81.1	70-130			
Toluene	0.0774	0.00200	"	0.100	ND	77.4	70-130			
o-Xylene	0.0860	0.00200	"	0.100	ND	86.0	70-130			
m,p-Xylene	0.159	0.00400	"	0.200	ND	79.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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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
<b>Batch B3K0936 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3K0936-MSD1)</b>	<b>Source: Y311254-21</b>				Prepared: 11/09/2023 Analyzed: 11/10/2023					
1,2,4-Trimethylbenzene	0.0946	0.00200	mg/kg	0.100	ND	94.6	70-130	21.4	20	QR-02
1,3,5-Trimethylbenzene	0.0933	0.00200	"	0.100	ND	93.3	70-130	20.6	20	QR-02
Benzene	0.0912	0.00200	"	0.100	ND	91.2	70-130	7.32	20	
Ethylbenzene	0.0981	0.00200	"	0.100	ND	98.1	70-130	20.8	20	QR-02
Naphthalene	0.0864	0.00380	"	0.100	ND	86.4	70-130	6.28	20	
Toluene	0.0880	0.00200	"	0.100	ND	88.0	70-130	12.9	20	
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130	20.3	20	QR-02
m,p-Xylene	0.195	0.00400	"	0.200	ND	97.5	70-130	20.4	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

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**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 B3K1405 - EPA 3050B**

**Blank (B3K1405-BLK1)**

Prepared: 11/14/2023 Analyzed: 11/16/2023

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 (B3K1405-BS1)**

Prepared: 11/14/2023 Analyzed: 11/16/2023

Arsenic	0.0507	0.000100	mg/kg	0.0500	101	80-120
Barium	5.04	0.0100	"	5.00	101	80-120
Cadmium	0.0532	0.000100	"	0.0500	106	80-120
Copper	0.505	0.0100	"	0.500	101	80-120
Lead	0.0517	0.0100	"	0.0500	103	80-120
Nickel	0.0508	0.0100	"	0.0500	102	80-120
Selenium	0.0506	0.000100	"	0.0500	101	80-120
Silver	0.0535	0.000100	"	0.0500	107	80-120
Zinc	0.453	0.100	"	0.500	90.6	80-120

**Matrix Spike (B3K1405-MS1)**

**Source: Y311167-01**

Prepared: 11/14/2023 Analyzed: 11/16/2023

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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
<b>Batch B3K1405 - EPA 3050B</b>										
<b>Matrix Spike (B3K1405-MS1)</b>		<b>Source: Y311167-01</b>			Prepared: 11/14/2023 Analyzed: 11/16/2023					
Arsenic	10.0	0.0969	mg/kg	4.84	4.13	122	75-125			
Barium	754	9.69	"	484	226	109	75-125			
Cadmium	6.14	0.0969	"	4.84	0.263	121	75-125			
Copper	66.5	9.69	"	48.4	15.7	105	75-125			
Lead	22.1	9.69	"	4.84	15.6	135	75-125			QM-07
Nickel	29.3	9.69	"	4.84	24.2	105	75-125			
Selenium	5.70	0.0969	"	4.84	0.709	103	75-125			
Silver	5.60	0.0969	"	4.84	0.0432	115	75-125			
Zinc	141	96.9	"	48.4	90.8	105	75-125			
<b>Matrix Spike Dup (B3K1405-MSD1)</b>		<b>Source: Y311167-01</b>			Prepared: 11/14/2023 Analyzed: 11/16/2023					
Arsenic	10.1	0.0968	mg/kg	4.84	4.13	124	75-125	0.942	20	
Barium	704	9.68	"	484	226	98.8	75-125	6.85	20	
Cadmium	5.82	0.0968	"	4.84	0.263	115	75-125	5.29	20	
Copper	69.4	9.68	"	48.4	15.7	111	75-125	4.22	20	
Lead	22.7	9.68	"	4.84	15.6	147	75-125	2.54	20	QM-07
Nickel	39.0	9.68	"	4.84	24.2	306	75-125	28.4	20	QM-07
Selenium	5.74	0.0968	"	4.84	0.709	104	75-125	0.619	20	
Silver	5.19	0.0968	"	4.84	0.0432	106	75-125	7.67	20	
Zinc	194	96.8	"	48.4	90.8	213	75-125	31.1	20	QM-07

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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 B3K0939 - EPA 3580**

**Blank (B3K0939-BLK1)**

Prepared: 11/09/2023 Analyzed: 11/10/2023

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		99.9	60-130			
Surrogate: Anthracene-d10	210		"	200		107	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.7	60-130			

**LCS (B3K0939-BS1)**

Prepared: 11/09/2023 Analyzed: 11/10/2023

1-Methylnaphthalene	0.202	0.002	mg/kg	0.200		101	70-130
2-Methylnaphthalene	0.201	0.002	"	0.200		100	70-130
Acenaphthene	0.202	0.020	"	0.200		101	70-130
Anthracene	0.218	0.020	"	0.200		109	70-130

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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 B3K0939 - EPA 3580**

**LCS (B3K0939-BS1)**

Prepared: 11/09/2023 Analyzed: 11/10/2023

Benzo (a) anthracene	0.184	0.005	mg/kg	0.200		92.2	70-130
Benzo (a) pyrene	0.193	0.020	"	0.200		96.4	70-130
Benzo (b) fluoranthene	0.177	0.020	"	0.200		88.7	70-130
Benzo (g,h,i) perylene	0.202	0.020	"	0.200		101	70-130
Benzo (k) fluoranthene	0.183	0.020	"	0.200		91.5	70-130
Chrysene	0.184	0.020	"	0.200		91.9	70-130
Dibenz (a,h) anthracene	0.199	0.020	"	0.200		99.3	70-130
Fluoranthene	0.205	0.020	"	0.200		103	70-130
Fluorene	0.203	0.020	"	0.200		102	70-130
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200		98.5	70-130
Naphthalene	0.203	0.002	"	0.200		101	70-130
Phenanthrene	0.195	0.020	"	0.200		97.5	70-130
Pyrene	0.188	0.020	"	0.200		93.9	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130
Surrogate: Anthracene-d10	200		"	200		102	60-130
Surrogate: Pyrene-d10	190		"	200		97.4	60-130
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.0	60-130

**Matrix Spike (B3K0939-MS1)**

Source: Y311269-01

Prepared: 11/09/2023 Analyzed: 11/10/2023

1-Methylnaphthalene	0.214	0.002	mg/kg	0.200	0.011	101	70-130
2-Methylnaphthalene	0.214	0.002	"	0.200	0.022	96.0	70-130
Acenaphthene	0.208	0.020	"	0.200	0.004	102	70-130
Anthracene	0.203	0.020	"	0.200	ND	102	70-130
Benzo (a) anthracene	0.206	0.005	"	0.200	ND	103	70-130
Benzo (a) pyrene	0.200	0.020	"	0.200	ND	99.9	70-130
Benzo (b) fluoranthene	0.201	0.020	"	0.200	ND	100	70-130
Benzo (g,h,i) perylene	0.208	0.020	"	0.200	ND	104	70-130

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**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 B3K0939 - EPA 3580**

Matrix Spike (B3K0939-MS1)		Source: Y311269-01			Prepared: 11/09/2023 Analyzed: 11/10/2023					
Benzo (k) fluoranthene	0.191	0.020	mg/kg	0.200	ND	95.3	70-130			
Chrysene	0.205	0.020	"	0.200	0.002	102	70-130			
Dibenz (a,h) anthracene	0.200	0.020	"	0.200	ND	100	70-130			
Fluoranthene	0.216	0.020	"	0.200	0.0005	108	70-130			
Fluorene	0.212	0.020	"	0.200	0.006	103	70-130			
Indeno (1,2,3-cd) pyrene	0.202	0.020	"	0.200	ND	101	70-130			
Naphthalene	0.209	0.002	"	0.200	ND	105	70-130			
Phenanthrene	0.201	0.020	"	0.200	0.008	96.8	70-130			
Pyrene	0.197	0.020	"	0.200	0.0009	98.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		98.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.4	60-130			

Matrix Spike Dup (B3K0939-MSD1)		Source: Y311269-01			Prepared: 11/09/2023 Analyzed: 11/10/2023					
1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	0.011	98.4	70-130	2.89	20	
2-Methylnaphthalene	0.205	0.002	"	0.200	0.022	91.9	70-130	3.88	20	
Acenaphthene	0.205	0.020	"	0.200	0.004	101	70-130	1.44	20	
Anthracene	0.191	0.020	"	0.200	ND	95.6	70-130	6.18	20	
Benzo (a) anthracene	0.197	0.005	"	0.200	ND	98.4	70-130	4.57	20	
Benzo (a) pyrene	0.205	0.020	"	0.200	ND	102	70-130	2.53	20	
Benzo (b) fluoranthene	0.191	0.020	"	0.200	ND	95.7	70-130	4.73	20	
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	ND	103	70-130	0.462	20	
Benzo (k) fluoranthene	0.214	0.020	"	0.200	ND	107	70-130	11.8	20	
Chrysene	0.201	0.020	"	0.200	0.002	99.4	70-130	2.35	20	
Dibenz (a,h) anthracene	0.195	0.020	"	0.200	ND	97.3	70-130	2.73	20	
Fluoranthene	0.209	0.020	"	0.200	0.0005	104	70-130	3.37	20	

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**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 B3K0939 - EPA 3580**

Matrix Spike Dup (B3K0939-MSD1)		Source: Y311269-01			Prepared: 11/09/2023 Analyzed: 11/10/2023					
Fluorene	0.207	0.020	mg/kg	0.200	0.006	101	70-130	2.36	20	
Indeno (1,2,3-cd) pyrene	0.193	0.020	"	0.200	ND	96.7	70-130	4.39	20	
Naphthalene	0.207	0.002	"	0.200	ND	103	70-130	1.03	20	
Phenanthrene	0.195	0.020	"	0.200	0.008	93.9	70-130	2.96	20	
Pyrene	0.196	0.020	"	0.200	0.0009	97.6	70-130	0.667	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		98.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.8	60-130			

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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 B3K1018 - Saturated Paste Metals**

**Blank (B3K1018-BLK1)**

Prepared: 11/10/2023 Analyzed: 11/13/2023

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 (B3K1018-DUP1)**

**Source: Y311237-01**

Prepared: 11/10/2023 Analyzed: 11/13/2023

SAR	ND	0.0100	SAR	4.21			200
Calcium PPM	438	10.0	mg/L	447		2.02	50
Magnesium PPM	357	10.0	"	333		6.91	50
Sodium PPM	517	10.0	"	483		6.93	50

**Batch B3K1021 - DTPA Sorbitol Preparation**

**Blank (B3K1021-BLK1)**

Prepared: 11/10/2023 Analyzed: 11/15/2023

Boron	ND	0.100	mg/L
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**Duplicate (B3K1021-DUP1)**

**Source: Y311150-01**

Prepared: 11/10/2023 Analyzed: 11/15/2023

Boron	0.837	0.0995	mg/L	0.669		22.3	50
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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
<b>Batch B3K1026 - Saturated Paste pH/EC</b>										
<b>Blank (B3K1026-BLK1)</b>					Prepared: 11/10/2023 Analyzed: 11/11/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3K1026-DUP1)</b>					<b>Source: Y311237-01</b> Prepared: 11/10/2023 Analyzed: 11/11/2023					
pH	8.17		pH Units		8.15			0.245	25	
Specific Conductance (EC)	5.01	0.00500	mmhos/cm		4.91			1.97	25	

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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
<b>Batch L717223 -</b>										
<b>DUP (L 96284-DUP)</b>		<b>Source: 96284</b>			Prepared: Analyzed: 11/15/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 96284-MS)</b>		<b>Source: 96284</b>			Prepared: Analyzed: 11/15/2023					
Chromium, Hexavalent	35.6	2.5	mg/Kg	38.9	<1.22	92	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 11/15/2023					
Chromium, Hexavalent	6.8	0.5	mg/Kg	8		85	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 11/15/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 - Bryant 16,23,36-30

## Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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

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



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.



*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.*



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

ORIGINS

LABORATORY, INC.

www.originslaboratory.com

V311349

page 1 of

Client: Orr/Tarman

Project Manager: Andy Siegen

Address: 6833 W. 15th Ave.  
Broomfield, CO 80020

Project Name: BAYVIEW I 16, 23, 36 3d

Project Number:

Telephone Number: PMA Contact Number (720) 939-3631

Samples Collected By: David Elyan

Email Address: Orr/Tarman@originslab.com

Method of Delivery (Circle One): Hand Delivered>Please Place@Tarman Look Box Drop Service Center Drop Refill: UPS

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis										
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	GBTEXN+TMB	DRO/DRO	PDA	SAR	EC	pH	Boron	Full Table 915
16-FL-B03P4'	11-14-23	11:28	3	X				X										X	Full Table 915 includes: VOC (GBTEXN+TMB), PAH, SAR, EC, pH, Boron Metals - As, Ba, Cd, Cr VI, Fe, Ni, Mn, Ag, Zn
1																			SOIL
23-FL-B03P4'	11-30	11:30	1																
2																			
36-FL-B03P4'	11-30	11:32	1																
3																			
34-FL-B03P4'	11-34	11:34	1																
4																			
5																			
6																			
7																			
8																			
9																			
10																			
Relinquished By: [Signature]	Date: 11-14-23	Time: 1532																	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>
Relinquished By: [Signature]	Date: 11-14-23	Time: 1532																	Standard <input type="checkbox"/>

Date Results Needed: 7

Origins Laboratory, Inc.

Byron

*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 - Bryant 16,23,36-30

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4311348

Client: Tasman

Client Project ID: Bryant

Checklist Completed by: JS

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

Date/time completed: 11/14/23

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 <sup>(1)</sup> ?		<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 11/14/23

Origins Laboratory, Inc.

[Signature]

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

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: [none]  
Project: KMG - 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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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 - 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

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

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)**

**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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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)**

**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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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 - 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)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	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	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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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 - 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)**

**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

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

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**

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 - 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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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 - 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			"	"	"	

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

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

## 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

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

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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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

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

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

**Boron (DTPA Sorbitol)**

Boron	0.216	0.0996	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	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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Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
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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)**

**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

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

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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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)**

**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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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

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K1402 - EPA 3550B</b>										
<b>Blank (B3K1402-BLK1)</b>					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			

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

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K1402 - EPA 3550B</b>										
<b>LCS (B3K1402-BS1)</b>					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			

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

**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			

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

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K1402 - EPA 3550B</b>										
<b>Matrix Spike Dup (B3K1402-MSD1)</b>	<b>Source: Y311348-01</b>				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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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
<b>Batch B3K1423 - EPA 5030 (soil)</b>										
<b>Blank (B3K1423-BLK1)</b>					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			

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

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K1423 - EPA 5030 (soil)</b>										
<b>LCS (B3K1423-BS1)</b>					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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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
<b>Batch B3K1423 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3K1423-MS1)</b>		<b>Source: Y311348-01</b>			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			

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

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K1423 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3K1423-MSD1)</b>		<b>Source: Y311348-01</b>		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			

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

**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

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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
<b>Batch B3K1520 - EPA 3050B</b>										
<b>Matrix Spike (B3K1520-MS1)</b>		<b>Source: Y311090-01</b>			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			
<b>Matrix Spike Dup (B3K1520-MSD1)</b>		<b>Source: Y311090-01</b>			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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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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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**

**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

Origins Laboratory, Inc.



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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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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
<b>Batch B3K1427 - EPA 3580</b>										
<b>Matrix Spike Dup (B3K1427-MSD1)</b>		<b>Source: Y311348-01</b>			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			

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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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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
<b>Batch B3K1510 - Saturated Paste pH/EC</b>										
<b>Blank (B3K1510-BLK1)</b>					Prepared: 11/15/2023 Analyzed: 11/16/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3K1510-DUP1)</b>					<b>Source: Y311348-01</b> 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	

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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
<b>Batch L717949 -</b>										
<b>DUP (L 97387-DUP)</b>	<b>Source: 97387</b>				Prepared: Analyzed: 11/20/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
<b>MS (L 97387-MS)</b>	<b>Source: 97387</b>				Prepared: Analyzed: 11/20/2023					
Chromium, Hexavalent	36.7	2.56	mg/Kg	41	<1.25	90	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 11/20/2023					
Chromium, Hexavalent	6.8	0.5	mg/Kg	8		85	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 11/20/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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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.

Origins Laboratory, Inc.

A handwritten signature in black ink, appearing to read "Bynon".

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January 16, 2024

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. January 08, 2024. This project is associated with Origins project number Y401138-01.

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
36-WH-B01R@6'	Y401138-01	Soil	January 8, 2024 13:23	01/08/2024 15:10
23-WH-B01R@6'	Y401138-02	Soil	January 8, 2024 13:25	01/08/2024 15:10
16-FL-B01R@4'	Y401138-03	Soil	January 8, 2024 13:27	01/08/2024 15:10

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

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

### Sample Receipt Checklist

Origins Work Order: 4401138

Client: Tasman  
Client Project ID: Bryant

Checklist Completed by: IST/EMS  
Date/time completed: 1/8/12

Shipped Via: HP  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: N/A

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

Cooler Number/Temperature: 1, 11 °C 1 °C 1 °C 1 °C

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 1/8/12

Origins Laboratory, Inc.

[Signature]

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



Tasman Geosciences

6855 West 119th Avenue

Broomfield CO 80020

Andy Sagen

Project Number: [none]

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

36-WH-B01R@6'

1/8/2024 1:23:00PM

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

Y401138-01 (Soil)

### Table 915 metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed
Barium	153	9.67	mg/kg	10	B4A0821	ZZZ	01/08/2024	01/09/2024

Origins Laboratory, Inc.



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

Tasman Geosciences

6855 West 119th Avenue

Broomfield CO 80020

Andy Sagen

Project Number: [none]

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

23-WH-B01R@6'

1/8/2024 1:25:00PM

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

Y401138-02 (Soil)

## pH in Soil by 9045D

pH	8.02		pH Units	1	B4A0916	EAL	01/09/2024	01/10/2024
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## Table 915 metals by EPA 6020B

Barium	25.0	9.80	mg/kg	10	B4A0821	ZZZ	01/08/2024	01/09/2024
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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 - Bryant 16,23,36-30

16-FL-B01R@4'

1/8/2024 1:27:00PM

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

Y401138-03 (Soil)

### Table 915 metals by EPA 6020B

Barium	156	8.39	mg/kg	10	B4A0821	ZZZ	01/08/2024	01/09/2024
Cadmium	0.138	0.0839	"	"	"	ZZZ	"	"

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 - 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
<b>Batch B4A0821 - EPA 3050B</b>										
<b>Blank (B4A0821-BLK1)</b>					Prepared: 01/08/2024 Analyzed: 01/09/2024					
Barium	ND	1.00	mg/kg							
Cadmium	ND	0.0100	"							
<b>LCS (B4A0821-BS1)</b>					Prepared: 01/08/2024 Analyzed: 01/09/2024					
Barium	477	1.00	mg/kg	500		95.4	80-120			
Cadmium	4.94	0.0100	"	5.00		98.8	80-120			
<b>Matrix Spike (B4A0821-MS1)</b>					<b>Source: Y312336-01</b>		Prepared: 01/08/2024 Analyzed: 01/09/2024			
Barium	556	9.50	mg/kg	475	379	37.3	75-125			
Cadmium	5.20	0.0950	"	4.75	0.144	106	75-125			
<b>Matrix Spike Dup (B4A0821-MSD1)</b>					<b>Source: Y312336-01</b>		Prepared: 01/08/2024 Analyzed: 01/09/2024			
Barium	545	8.86	mg/kg	443	379	37.6	75-125	1.96	20	
Cadmium	4.75	0.0886	"	4.43	0.144	104	75-125	8.99	20	

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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

**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 B4A0916 - Saturated Paste pH/EC**

**Duplicate (B4A0916-DUP1)**

**Source: Y401138-02**

Prepared: 01/09/2024 Analyzed: 01/10/2024

pH	7.97		pH Units	8.02				0.625	25	
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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

### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



November 21, 2023

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

**Project Name - KMG - Bryant 9&34-30A O SA  
Facility**

**Project Number - 90428052**

Attached are your analytical results for KMG - Bryant 9&34-30A O SA Facility received by Origins Laboratory, Inc. November 09, 2023. This project is associated with Origins project number Y311269-01.

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: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP1-B01@4'	Y311269-01	Soil	November 9, 2023 13:02	11/09/2023 15:56
SEP1-B02@4'	Y311269-02	Soil	November 9, 2023 13:04	11/09/2023 15:56
SEP2-B01@4'	Y311269-03	Soil	November 9, 2023 13:06	11/09/2023 15:56
SEP2-B02@4'	Y311269-04	Soil	November 9, 2023 13:08	11/09/2023 15:56
BG-01@2'	Y311269-05	Soil	November 9, 2023 14:20	11/09/2023 15:56
BG-01@5'	Y311269-06	Soil	November 9, 2023 14:22	11/09/2023 15:56
BG-02@2'	Y311269-07	Soil	November 9, 2023 14:24	11/09/2023 15:56
BG-02@5'	Y311269-08	Soil	November 9, 2023 14:26	11/09/2023 15:56

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: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4311269

Client: Tasman

Client Project ID: Bryant 9 & 34-30A

Checklist Completed by: EHS

Shipped Via: FD

Date/time completed: 11/9/12

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

Airbill #: N/A

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

Cooler Number/Temperature: 1 5.2 °C 1 °C 1 °C (Describe) °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> / ( pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

[Signature]  
Reviewed by (Project Manager)

11/9/12  
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

SEP1-B01@4'  
11/9/2023 1:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311269-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.452	0.0989	mg/L	1	B3K1020	11/10/2023	11/14/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K0935	11/09/2023	11/10/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.4 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0936	11/09/2023	11/10/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	0.00580	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	0.00442	0.00200	"	"	"	"	"	
Xylenes, total	0.00270	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.207	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

SEP1-B01@4'  
11/9/2023 1:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311269-01 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	95.6 %	70-130	B3K09 36	11/09/2023	11/10/2023
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## Metals by Saturated Paste by EPA 6010

Calcium	2.62	0.499	meq/L	10	[CALC]	11/10/2023	11/13/2023
Magnesium	1.20	0.823	"	"	"	"	"
Sodium	0.843	0.435	"	"	"	"	"

## PAH by EPA 8270E

1-Methylnaphthalene	0.011	0.002	mg/kg	1	B3K0939	11/09/2023	11/10/2023	
2-Methylnaphthalene	0.022	0.002	"	"	"	"	"	
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

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

SEP1-B01@4'  
11/9/2023 1:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311269-01 (Soil)**

**PAH by EPA 8270E**

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B3K0939	11/09/2023	11/10/2023	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	102 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.5 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.8 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.24	pH Units	1	B3K1025	11/10/2023	11/11/2023
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**SAR by 20B Saturated Paste**

SAR	0.610	0.0100	SAR	1	B3K1017	11/10/2023	11/13/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.518	0.00500	mmhos/cm	1	B3K1025	11/10/2023	11/11/2023
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**Table 915 metals by EPA 6020B**

Arsenic	3.07	0.0987	mg/kg	10	B3K1009	11/10/2023	11/15/2023
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Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

SEP1-B01@4'  
11/9/2023 1:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311269-01 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	86.7	9.87	mg/kg	10	B3K1009	11/10/2023	11/15/2023
Cadmium	0.111	0.0987	"	"	"	"	"
Copper	10.5	9.87	"	"	"	"	"
Lead	ND	9.87	"	"	"	"	"
Nickel	11.7	9.87	"	"	"	"	"
Selenium	0.174	0.0987	"	"	"	"	"
Silver	ND	0.0987	"	"	"	"	"
Zinc	ND	98.7	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L717227	11/09/2023	11/15/2023
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Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

SEP1-B02@4'  
11/9/2023 1:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311269-02 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.365	0.0999	mg/L	1	B3K1020	11/10/2023	11/14/2023
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## DRO/ORO by EPA 8015D

Diesel (C10-C28)	62.1	25.0	mg/kg	1	B3K0935	11/09/2023	11/10/2023
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	" U

Surrogate: o-Terphenyl	81.8 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.996	0.0500	mg/kg	25	B3K0936	11/09/2023	11/10/2023
1,3,5-Trimethylbenzene	0.397	0.0500	"	"	"	"	"
Benzene	0.0326	0.00200	"	1	"	"	11/10/2023
Ethylbenzene	0.103	0.0500	"	25	"	"	11/10/2023
Toluene	0.238	0.0500	"	"	"	"	"
Xylenes, total	1.47	0.0500	"	"	"	"	"
Gasoline Range Hydrocarbons	84.4	5.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

SEP1-B02@4'  
11/9/2023 1:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311269-02 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.35	0.499	meq/L	10	[CALC]	11/10/2023	11/13/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	0.356	0.002	mg/kg	1	B3K0939	11/09/2023	11/10/2023
2-Methylnaphthalene	0.822	0.002	"	"	"	"	"
Acenaphthene	0.069	0.020	"	"	"	"	"
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	0.077	0.020	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	U
Naphthalene	0.150	0.002	"	"	"	"	"
Pyrene	ND	0.020	"	"	"	"	U
Surrogate: Fluorene-d10	109 %	60-130			"	"	"

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

SEP1-B02@4'  
11/9/2023 1:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y311269-02 (Soil)

**PAH by EPA 8270E**

Surrogate: Anthracene-d10	99.5 %	60-130	B3K0939	11/09/2023	11/10/2023
Surrogate: Pyrene-d10	91.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.2 %	60-130	"	"	"

**pH in Soil by 9045D**

pH	8.34	pH Units	1	B3K1025	11/10/2023	11/11/2023
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**SAR by 20B Saturated Paste**

SAR	0.401	0.0100	SAR	1	B3K1017	11/10/2023	11/13/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.281	0.00500	mmhos/cm	1	B3K1025	11/10/2023	11/11/2023
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**Table 915 metals by EPA 6020B**

Arsenic	2.58	0.0953	mg/kg	10	B3K1009	11/10/2023	11/15/2023
Barium	64.2	9.53	"	"	"	"	"
Cadmium	ND	0.0953	"	"	"	"	"
Copper	ND	9.53	"	"	"	"	"
Lead	ND	9.53	"	"	"	"	"
Nickel	ND	9.53	"	"	"	"	"
Selenium	ND	0.0953	"	"	"	"	"

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6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

SEP1-B02@4'

11/9/2023 1:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311269-02 (Soil)

## Table 915 metals by EPA 6020B

Silver	ND		0.0953	mg/kg	10	B3K1009	11/10/2023	11/15/2023	
Zinc	ND		95.3	"	"	"	"	"	

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L717227	11/09/2023	11/15/2023	
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6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

SEP2-B01@4'  
11/9/2023 1:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311269-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.189	0.100	mg/L	1	B3K1020	11/10/2023	11/14/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K0935	11/09/2023	11/10/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	73.9 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0936	11/09/2023	11/10/2023	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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6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

SEP2-B01@4'  
11/9/2023 1:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311269-03 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %	70-130	B3K0936	11/09/2023	11/10/2023
Surrogate: 4-Bromofluorobenzene	94.6 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	0.925	0.499	meq/L	10	[CALC]	11/10/2023	11/13/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K0939	11/09/2023	11/10/2023	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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Project: KMG - Bryant 9&34-30A O SA Facility

SEP2-B01@4'  
11/9/2023 1:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311269-03 (Soil)

### PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3K0939	11/09/2023	11/10/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.8 %	60-130	"	"	"
Surrogate: Anthracene-d10	110 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.5 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.33	pH Units	1	B3K1025	11/10/2023	11/11/2023
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### SAR by 20B Saturated Paste

SAR	0.315	0.0100	SAR	1	B3K1017	11/10/2023	11/13/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.198	0.00500	mmhos/cm	1	B3K1025	11/10/2023	11/11/2023
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### Table 915 metals by EPA 6020B

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Project: KMG - Bryant 9&34-30A O SA Facility

SEP2-B01@4'

11/9/2023 1:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311269-03 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	2.51	0.0985	mg/kg	10	B3K1009	11/10/2023	11/15/2023
Barium	62.9	9.85	"	"	"	"	"
Cadmium	ND	0.0985	"	"	"	"	"
Copper	ND	9.85	"	"	"	"	"
Lead	ND	9.85	"	"	"	"	"
Nickel	ND	9.85	"	"	"	"	"
Selenium	ND	0.0985	"	"	"	"	"
Silver	ND	0.0985	"	"	"	"	"
Zinc	ND	98.5	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L717227	11/09/2023	11/15/2023
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Origins Laboratory, Inc.



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Project: KMG - Bryant 9&34-30A O SA Facility

SEP2-B02@4'  
11/9/2023 1:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311269-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.332	0.0984	mg/L	1	B3K1020	11/10/2023	11/14/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K0935	11/09/2023	11/10/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	75.9 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0936	11/09/2023	11/10/2023	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	103 %	70-130	"	"	"
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Origins Laboratory, Inc.



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6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

SEP2-B02@4'

11/9/2023 1:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311269-04 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	104 %	70-130	B3K0936	11/09/2023	11/10/2023
Surrogate: 4-Bromofluorobenzene	95.2 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	2.09	0.499	meq/L	10	[CALC]	11/10/2023	11/13/2023
Magnesium	1.26	0.823	"	"	"	"	"
Sodium	0.958	0.435	"	"	"	"	"

## PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K0939	11/09/2023	11/10/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.005	0.005	"	"	"	"	"	
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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Broomfield CO 80020

Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

SEP2-B02@4'  
11/9/2023 1:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311269-04 (Soil)

### PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3K0939	11/09/2023	11/10/2023	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	98.4 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.1 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.7 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.28	pH Units	1	B3K1026	11/10/2023	11/11/2023
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### SAR by 20B Saturated Paste

SAR	0.740	0.0100	SAR	1	B3K1018	11/10/2023	11/13/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.455	0.00500	mmhos/cm	1	B3K1026	11/10/2023	11/11/2023
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### Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

SEP2-B02@4'

11/9/2023 1:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311269-04 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	2.80	0.0942	mg/kg	10	B3K1009	11/10/2023	11/15/2023
Barium	75.6	9.42	"	"	"	"	"
Cadmium	0.115	0.0942	"	"	"	"	"
Copper	9.47	9.42	"	"	"	"	"
Lead	ND	9.42	"	"	"	"	"
Nickel	9.52	9.42	"	"	"	"	"
Selenium	0.160	0.0942	"	"	"	"	"
Silver	ND	0.0942	"	"	"	"	"
Zinc	ND	94.2	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L717227	11/09/2023	11/15/2023
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6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

**BG-01@2'**

**11/9/2023 2:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311269-05 (Soil)**

### Boron (DTPA Sorbitol)

Boron	ND	0.991	mg/L	10	B3K1020	11/10/2023	11/14/2023
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### Metals by Saturated Paste by EPA 6010

Calcium	2.39	0.499	meq/L	"	[CALC]	11/10/2023	11/13/2023
Magnesium	1.81	0.823	"	"	"	"	"
Sodium	1.92	0.435	"	"	"	"	"

### pH in Soil by 9045D

pH	8.28		pH Units	1	B3K1026	11/10/2023	11/11/2023
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### SAR by 20B Saturated Paste

SAR	1.32	0.0100	SAR	1	B3K1018	11/10/2023	11/13/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.666	0.00500	mmhos/cm	1	B3K1026	11/10/2023	11/11/2023
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### Table 915 metals by EPA 6020B

Arsenic	3.63	0.0839	mg/kg	10	B3K1009	11/10/2023	11/15/2023
Barium	122	8.39	"	"	"	"	"
Cadmium	0.226	0.0839	"	"	"	"	"
Copper	14.3	8.39	"	"	"	"	"

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6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

BG-01@2'

11/9/2023 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311269-05 (Soil)

## Table 915 metals by EPA 6020B

Lead	12.8	8.39	mg/kg	10	B3K1009	11/10/2023	11/15/2023
Nickel	14.7	8.39	"	"	"	"	"
Selenium	0.305	0.0839	"	"	"	"	"
Silver	ND	0.0839	"	"	"	"	"
Zinc	ND	83.9	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L717227	11/09/2023	11/15/2023
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Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

BG-01@5'

11/9/2023 2:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311269-06 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.262	0.0998	mg/L	1	B3K1020	11/10/2023	11/14/2023
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### Metals by Saturated Paste by EPA 6010

Calcium	2.38	0.499	meq/L	10	[CALC]	11/10/2023	11/13/2023
Magnesium	2.47	0.823	"	"	"	"	"
Sodium	3.15	0.435	"	"	"	"	"

### pH in Soil by 9045D

pH	8.32		pH Units	1	B3K1026	11/10/2023	11/11/2023
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### SAR by 20B Saturated Paste

SAR	2.02	0.0100	SAR	1	B3K1018	11/10/2023	11/13/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.792	0.00500	mmhos/cm	1	B3K1026	11/10/2023	11/11/2023
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### Table 915 metals by EPA 6020B

Arsenic	2.58	0.0980	mg/kg	10	B3K1009	11/10/2023	11/15/2023
Barium	79.7	9.80	"	"	"	"	"
Cadmium	ND	0.0980	"	"	"	"	"
Copper	ND	9.80	"	"	"	"	"

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Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

BG-01@5'

11/9/2023 2:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311269-06 (Soil)

## Table 915 metals by EPA 6020B

Lead	ND	9.80	mg/kg	10	B3K1009	11/10/2023	11/15/2023
Nickel	13.5	9.80	"	"	"	"	"
Selenium	0.150	0.0980	"	"	"	"	"
Silver	ND	0.0980	"	"	"	"	"
Zinc	ND	98.0	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L717227	11/09/2023	11/15/2023
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Broomfield CO 80020

Andy Sagen  
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Project: KMG - Bryant 9&34-30A O SA Facility

**BG-02@2'**

**11/9/2023 2:24:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311269-07 (Soil)**

### Boron (DTPA Sorbitol)

Boron	1.97	0.986	mg/L	10	B3K1020	11/10/2023	11/14/2023
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### Metals by Saturated Paste by EPA 6010

Calcium	2.99	0.499	meq/L	"	[CALC]	11/10/2023	11/13/2023
Magnesium	3.19	0.823	"	"	"	"	"
Sodium	6.88	0.435	"	"	"	"	"

### pH in Soil by 9045D

pH	8.28		pH Units	1	B3K1026	11/10/2023	11/11/2023
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### SAR by 20B Saturated Paste

SAR	3.92	0.0100	SAR	1	B3K1018	11/10/2023	11/13/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.17	0.00500	mmhos/cm	1	B3K1026	11/10/2023	11/11/2023
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### Table 915 metals by EPA 6020B

Arsenic	5.04	0.0978	mg/kg	10	B3K1009	11/10/2023	11/15/2023
Barium	137	9.78	"	"	"	"	"
Cadmium	0.264	0.0978	"	"	"	"	"
Copper	17.5	9.78	"	"	"	"	"

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BG-02@2'

11/9/2023 2:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311269-07 (Soil)

## Table 915 metals by EPA 6020B

Lead	16.7	9.78	mg/kg	10	B3K1009	11/10/2023	11/15/2023
Nickel	16.2	9.78	"	"	"	"	"
Selenium	0.366	0.0978	"	"	"	"	"
Silver	0.110	0.0978	"	"	"	"	"
Zinc	ND	97.8	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	2.44	5	mg/Kg	10	L717227	11/09/2023	11/15/2023
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**BG-02@5'**

**11/9/2023 2:26:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311269-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.184	0.0997	mg/L	1	B3K1020	11/10/2023	11/14/2023
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.89	0.499	meq/L	10	[CALC]	11/10/2023	11/13/2023
Magnesium	2.46	0.823	"	"	"	"	"
Sodium	3.50	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.39		pH Units	1	B3K1026	11/10/2023	11/11/2023
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**SAR by 20B Saturated Paste**

SAR	2.14	0.0100	SAR	1	B3K1018	11/10/2023	11/13/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.896	0.00500	mmhos/cm	1	B3K1026	11/10/2023	11/11/2023
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**Table 915 metals by EPA 6020B**

Arsenic	2.43	0.0972	mg/kg	10	B3K1009	11/10/2023	11/15/2023
Barium	41.3	9.72	"	"	"	"	"
Cadmium	ND	0.0972	"	"	"	"	"
Copper	ND	9.72	"	"	"	"	"

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Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

**BG-02@5'**

**11/9/2023 2:26:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311269-08 (Soil)**

### Table 915 metals by EPA 6020B

Lead	ND	9.72	mg/kg	10	B3K1009	11/10/2023	11/15/2023
Nickel	ND	9.72	"	"	"	"	"
Selenium	ND	0.0972	"	"	"	"	"
Silver	ND	0.0972	"	"	"	"	"
Zinc	ND	97.2	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L717227	11/09/2023	11/15/2023
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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K0935 - EPA 3550B</b>										
<b>Blank (B3K0935-BLK1)</b>					Prepared: 11/09/2023 Analyzed: 11/09/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		83.0	50-150			

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Project: KMG - Bryant 9&34-30A O SA Facility

**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 B3K0935 - EPA 3550B**

**LCS (B3K0935-BS1)**

Prepared: 11/09/2023 Analyzed: 11/09/2023

Diesel (C10-C28)	948	50.0	mg/kg	1000		94.8	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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Project: KMG - Bryant 9&34-30A O SA Facility

**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 B3K0935 - EPA 3550B**

Matrix Spike (B3K0935-MS1)		Source: Y311254-21			Prepared: 11/09/2023 Analyzed: 11/09/2023					
Diesel (C10-C28)	874	50.0	mg/kg	1000	ND	87.4	70-130			
Residual Range Organics (C28-C40)	928	200	"	1000	ND	92.8	70-130			
Surrogate: o-Terphenyl	40		"	49.8		79.8	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K0935 - EPA 3550B</b>										
<b>Matrix Spike Dup (B3K0935-MSD1)</b>	<b>Source: Y311254-21</b>				Prepared: 11/09/2023 Analyzed: 11/09/2023					
Diesel (C10-C28)	976	50.0	mg/kg	1000	ND	97.6	70-130	11.0	35	
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130	12.5	35	
Surrogate: o-Terphenyl	41		"	49.8		82.3	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K0936 - EPA 5030 (soil)</b>										
<b>Blank (B3K0936-BLK1)</b>					Prepared: 11/09/2023 Analyzed: 11/09/2023					
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	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.5	70-130			

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Project: KMG - Bryant 9&34-30A O SA Facility

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K0936 - EPA 5030 (soil)</b>										
<b>LCS (B3K0936-BS1)</b>					Prepared: 11/09/2023 Analyzed: 11/09/2023					
1,2,4-Trimethylbenzene	0.0942	0.00200	mg/kg	0.100		94.2	70-130			
1,3,5-Trimethylbenzene	0.0950	0.00200	"	0.100		95.0	70-130			
Benzene	0.0964	0.00200	"	0.100		96.4	70-130			
Ethylbenzene	0.0963	0.00200	"	0.100		96.3	70-130			
Naphthalene	0.0945	0.00380	"	0.100		94.5	70-130			
Toluene	0.0925	0.00200	"	0.100		92.5	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.192	0.00400	"	0.200		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K0936 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3K0936-MS1)</b>		<b>Source: Y311254-21</b>			Prepared: 11/09/2023 Analyzed: 11/09/2023					
1,2,4-Trimethylbenzene	0.0763	0.00200	mg/kg	0.100	ND	76.3	70-130			
1,3,5-Trimethylbenzene	0.0758	0.00200	"	0.100	ND	75.8	70-130			
Benzene	0.0847	0.00200	"	0.100	ND	84.7	70-130			
Ethylbenzene	0.0796	0.00200	"	0.100	ND	79.6	70-130			
Naphthalene	0.0811	0.00380	"	0.100	ND	81.1	70-130			
Toluene	0.0774	0.00200	"	0.100	ND	77.4	70-130			
o-Xylene	0.0860	0.00200	"	0.100	ND	86.0	70-130			
m,p-Xylene	0.159	0.00400	"	0.200	ND	79.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K0936 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3K0936-MSD1)</b>			<b>Source: Y311254-21</b>		Prepared: 11/09/2023 Analyzed: 11/10/2023					
1,2,4-Trimethylbenzene	0.0946	0.00200	mg/kg	0.100	ND	94.6	70-130	21.4	20	QR-02
1,3,5-Trimethylbenzene	0.0933	0.00200	"	0.100	ND	93.3	70-130	20.6	20	QR-02
Benzene	0.0912	0.00200	"	0.100	ND	91.2	70-130	7.32	20	
Ethylbenzene	0.0981	0.00200	"	0.100	ND	98.1	70-130	20.8	20	QR-02
Naphthalene	0.0864	0.00380	"	0.100	ND	86.4	70-130	6.28	20	
Toluene	0.0880	0.00200	"	0.100	ND	88.0	70-130	12.9	20	
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130	20.3	20	QR-02
m,p-Xylene	0.195	0.00400	"	0.200	ND	97.5	70-130	20.4	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

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Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

**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 B3K1009 - EPA 3050B**

**Blank (B3K1009-BLK1)**

Prepared: 11/10/2023 Analyzed: 11/15/2023

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 (B3K1009-BS1)**

Prepared: 11/10/2023 Analyzed: 11/15/2023

Arsenic	0.0493	0.000100	mg/kg	0.0500	98.7	80-120
Barium	5.19	0.0100	"	5.00	104	80-120
Cadmium	0.0513	0.000100	"	0.0500	103	80-120
Copper	0.516	0.0100	"	0.500	103	80-120
Lead	0.0501	0.0100	"	0.0500	100	80-120
Nickel	0.0491	0.0100	"	0.0500	98.2	80-120
Selenium	0.0522	0.000100	"	0.0500	104	80-120
Silver	0.0532	0.000100	"	0.0500	106	80-120
Zinc	0.483	0.100	"	0.500	96.5	80-120

**Matrix Spike (B3K1009-MS1)**

**Source: Y311254-25**

Prepared: 11/10/2023 Analyzed: 11/15/2023

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Project: KMG - Bryant 9&34-30A O SA Facility

**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 B3K1009 - EPA 3050B**

Matrix Spike (B3K1009-MS1)		Source: Y311254-25			Prepared: 11/10/2023 Analyzed: 11/15/2023					
Arsenic	9.96	0.0879	mg/kg	4.39	5.73	96.4	75-125			
Barium	614	8.79	"	439	134	109	75-125			
Cadmium	5.01	0.0879	"	4.39	0.221	109	75-125			
Copper	61.1	8.79	"	43.9	12.9	110	75-125			
Lead	14.7	8.79	"	4.39	10.4	99.4	75-125			
Nickel	19.7	8.79	"	4.39	15.4	97.1	75-125			
Selenium	4.86	0.0879	"	4.39	0.112	108	75-125			
Silver	4.95	0.0879	"	4.39	0.0450	112	75-125			
Zinc	96.7	87.9	"	43.9	52.5	101	75-125			
Matrix Spike Dup (B3K1009-MSD1)		Source: Y311254-25			Prepared: 11/10/2023 Analyzed: 11/15/2023					
Arsenic	12.5	0.0878	mg/kg	4.39	5.73	153	75-125	22.2	20	QM-07
Barium	611	8.78	"	439	134	109	75-125	0.417	20	
Cadmium	4.38	0.0878	"	4.39	0.221	94.7	75-125	13.5	20	
Copper	60.5	8.78	"	43.9	12.9	108	75-125	0.977	20	
Lead	20.6	8.78	"	4.39	10.4	235	75-125	33.5	20	QM-07
Nickel	26.5	8.78	"	4.39	15.4	254	75-125	29.8	20	QM-07
Selenium	4.20	0.0878	"	4.39	0.112	93.2	75-125	14.5	20	
Silver	4.14	0.0878	"	4.39	0.0450	93.4	75-125	17.7	20	
Zinc	113	87.8	"	43.9	52.5	138	75-125	15.8	20	QM-07

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Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

**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 B3K0939 - EPA 3580**

**Blank (B3K0939-BLK1)**

Prepared: 11/09/2023 Analyzed: 11/10/2023

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		99.9	60-130			
Surrogate: Anthracene-d10	210		"	200		107	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.7	60-130			

**LCS (B3K0939-BS1)**

Prepared: 11/09/2023 Analyzed: 11/10/2023

1-Methylnaphthalene	0.202	0.002	mg/kg	0.200		101	70-130
2-Methylnaphthalene	0.201	0.002	"	0.200		100	70-130
Acenaphthene	0.202	0.020	"	0.200		101	70-130
Anthracene	0.218	0.020	"	0.200		109	70-130

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

**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 B3K0939 - EPA 3580**

**LCS (B3K0939-BS1)**

Prepared: 11/09/2023 Analyzed: 11/10/2023

Benzo (a) anthracene	0.184	0.005	mg/kg	0.200		92.2	70-130
Benzo (a) pyrene	0.193	0.020	"	0.200		96.4	70-130
Benzo (b) fluoranthene	0.177	0.020	"	0.200		88.7	70-130
Benzo (g,h,i) perylene	0.202	0.020	"	0.200		101	70-130
Benzo (k) fluoranthene	0.183	0.020	"	0.200		91.5	70-130
Chrysene	0.184	0.020	"	0.200		91.9	70-130
Dibenz (a,h) anthracene	0.199	0.020	"	0.200		99.3	70-130
Fluoranthene	0.205	0.020	"	0.200		103	70-130
Fluorene	0.203	0.020	"	0.200		102	70-130
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200		98.5	70-130
Naphthalene	0.203	0.002	"	0.200		101	70-130
Phenanthrene	0.195	0.020	"	0.200		97.5	70-130
Pyrene	0.188	0.020	"	0.200		93.9	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130
Surrogate: Anthracene-d10	200		"	200		102	60-130
Surrogate: Pyrene-d10	190		"	200		97.4	60-130
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.0	60-130

**Matrix Spike (B3K0939-MS1)**

**Source: Y311269-01**

Prepared: 11/09/2023 Analyzed: 11/10/2023

1-Methylnaphthalene	0.214	0.002	mg/kg	0.200	0.011	101	70-130
2-Methylnaphthalene	0.214	0.002	"	0.200	0.022	96.0	70-130
Acenaphthene	0.208	0.020	"	0.200	0.004	102	70-130
Anthracene	0.203	0.020	"	0.200	ND	102	70-130
Benzo (a) anthracene	0.206	0.005	"	0.200	ND	103	70-130
Benzo (a) pyrene	0.200	0.020	"	0.200	ND	99.9	70-130
Benzo (b) fluoranthene	0.201	0.020	"	0.200	ND	100	70-130
Benzo (g,h,i) perylene	0.208	0.020	"	0.200	ND	104	70-130

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**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 B3K0939 - EPA 3580**

Matrix Spike (B3K0939-MS1)		Source: Y311269-01			Prepared: 11/09/2023 Analyzed: 11/10/2023					
Benzo (k) fluoranthene	0.191	0.020	mg/kg	0.200	ND	95.3	70-130			
Chrysene	0.205	0.020	"	0.200	0.002	102	70-130			
Dibenz (a,h) anthracene	0.200	0.020	"	0.200	ND	100	70-130			
Fluoranthene	0.216	0.020	"	0.200	0.0005	108	70-130			
Fluorene	0.212	0.020	"	0.200	0.006	103	70-130			
Indeno (1,2,3-cd) pyrene	0.202	0.020	"	0.200	ND	101	70-130			
Naphthalene	0.209	0.002	"	0.200	ND	105	70-130			
Phenanthrene	0.201	0.020	"	0.200	0.008	96.8	70-130			
Pyrene	0.197	0.020	"	0.200	0.0009	98.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		98.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.4	60-130			

Matrix Spike Dup (B3K0939-MSD1)		Source: Y311269-01			Prepared: 11/09/2023 Analyzed: 11/10/2023					
1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	0.011	98.4	70-130	2.89	20	
2-Methylnaphthalene	0.205	0.002	"	0.200	0.022	91.9	70-130	3.88	20	
Acenaphthene	0.205	0.020	"	0.200	0.004	101	70-130	1.44	20	
Anthracene	0.191	0.020	"	0.200	ND	95.6	70-130	6.18	20	
Benzo (a) anthracene	0.197	0.005	"	0.200	ND	98.4	70-130	4.57	20	
Benzo (a) pyrene	0.205	0.020	"	0.200	ND	102	70-130	2.53	20	
Benzo (b) fluoranthene	0.191	0.020	"	0.200	ND	95.7	70-130	4.73	20	
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	ND	103	70-130	0.462	20	
Benzo (k) fluoranthene	0.214	0.020	"	0.200	ND	107	70-130	11.8	20	
Chrysene	0.201	0.020	"	0.200	0.002	99.4	70-130	2.35	20	
Dibenz (a,h) anthracene	0.195	0.020	"	0.200	ND	97.3	70-130	2.73	20	
Fluoranthene	0.209	0.020	"	0.200	0.0005	104	70-130	3.37	20	

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**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 B3K0939 - EPA 3580**

Matrix Spike Dup (B3K0939-MSD1)		Source: Y311269-01			Prepared: 11/09/2023 Analyzed: 11/10/2023					
Fluorene	0.207	0.020	mg/kg	0.200	0.006	101	70-130	2.36	20	
Indeno (1,2,3-cd) pyrene	0.193	0.020	"	0.200	ND	96.7	70-130	4.39	20	
Naphthalene	0.207	0.002	"	0.200	ND	103	70-130	1.03	20	
Phenanthrene	0.195	0.020	"	0.200	0.008	93.9	70-130	2.96	20	
Pyrene	0.196	0.020	"	0.200	0.0009	97.6	70-130	0.667	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		98.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.8	60-130			

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**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3K1017 - Saturated Paste Metals**

**Blank (B3K1017-BLK1)**

Prepared: 11/10/2023 Analyzed: 11/13/2023

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 (B3K1017-DUP1)**

**Source: Y311262-06**

Prepared: 11/10/2023 Analyzed: 11/13/2023

Calcium PPM	402	10.0	mg/L	424	5.26	50
SAR	ND	0.0100	SAR	ND		200
Magnesium PPM	191	10.0	mg/L	213	11.0	50
Sodium PPM	959	10.0	"	1090	12.3	50

**Batch B3K1018 - Saturated Paste Metals**

**Blank (B3K1018-BLK1)**

Prepared: 11/10/2023 Analyzed: 11/13/2023

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

**Duplicate (B3K1018-DUP1)**

**Source: Y311237-01**

Prepared: 11/10/2023 Analyzed: 11/13/2023

Calcium PPM	438	10.0	mg/L	447	2.02	50
SAR	ND	0.0100	SAR	4.21		200
Magnesium PPM	357	10.0	mg/L	333	6.91	50
Sodium PPM	517	10.0	"	483	6.93	50

**Batch B3K1020 - DTPA Sorbitol Preparation**

**Blank (B3K1020-BLK1)**

Prepared: 11/10/2023 Analyzed: 11/14/2023

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Broomfield CO 80020

Andy Sagen  
Project Number: 90428052  
Project: KMG - Bryant 9&34-30A O SA Facility

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K1020 - DTPA Sorbitol Preparation</b>										
<b>Blank (B3K1020-BLK1)</b>					Prepared: 11/10/2023 Analyzed: 11/14/2023					
Boron	ND	0.100	mg/L							
<b>Duplicate (B3K1020-DUP1)</b>					Source: Y311264-01 Prepared: 11/10/2023 Analyzed: 11/14/2023					
Boron	11.3	0.0990	mg/L		13.9			20.7	50	

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**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 B3K1025 - Saturated Paste pH/EC**

**Blank (B3K1025-BLK1)**

Prepared: 11/10/2023 Analyzed: 11/11/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3K1025-DUP1)**

**Source: Y311262-06**

Prepared: 11/10/2023 Analyzed: 11/11/2023

pH	8.06		pH Units	8.05		0.124	25
Specific Conductance (EC)	6.03	0.00500	mmhos/cm	6.38		5.63	25

**Batch B3K1026 - Saturated Paste pH/EC**

**Blank (B3K1026-BLK1)**

Prepared: 11/10/2023 Analyzed: 11/11/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3K1026-DUP1)**

**Source: Y311237-01**

Prepared: 11/10/2023 Analyzed: 11/11/2023

pH	8.17		pH Units	8.15		0.245	25
Specific Conductance (EC)	5.01	0.00500	mmhos/cm	4.91		1.97	25

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**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
<b>Batch L717227 -</b>										
<b>DUP (L 96332-DUP)</b>		<b>Source: 96332</b>			Prepared: Analyzed: 11/15/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 96332-MS)</b>		<b>Source: 96332</b>			Prepared: Analyzed: 11/15/2023					
Chromium, Hexavalent	25.6	2.5	mg/Kg	39.2	<1.22	65	75-125			*
<b>LCS (LCS)</b>					Prepared: Analyzed: 11/15/2023					
Chromium, Hexavalent	7.2	0.5	mg/Kg	8		90	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 11/15/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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### Notes and Definitions

U Sample is Non-Detect.

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.

\* QC Failure

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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A handwritten signature in black ink, appearing to read "Bynon".

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