

May 17, 2024

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - **KMG - Miller 29N 18N 4N-24HZ
OSA**

Project Number - **[none]**

Attached are your analytical results for KMG - Miller 29N 18N 4N-24HZ OSA received by Origins Laboratory, Inc. May 06, 2024. This project is associated with Origins project number Y405152-01.

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 - Miller 29N 18N 4N-24HZ OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
REL-B01@3"	Y405152-01	Soil	May 6, 2024 9:00	05/06/2024 13:58
BG-01@3"	Y405152-02	Soil	May 6, 2024 9:02	05/06/2024 13:58
BG-02@3"	Y405152-03	Soil	May 6, 2024 9:04	05/06/2024 13:58
BG-03@3"	Y405152-04	Soil	May 6, 2024 9:06	05/06/2024 13:58
BG-04@3"	Y405152-05	Soil	May 6, 2024 9:08	05/06/2024 13:58

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 7405152

Client: Tasman

Client Project ID: MILLER 29N, 18N 4N-24

Checklist Completed by: TOPP/CAO

Shipped Via: Hand Delivered

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

Date/time completed: 5/10/24

Airbill #: N/A

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

Cooler Number/Temperature: 1/10 °C / _____ °C / _____ °C / _____ °C (Describe)

Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>SD</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) COO

Date/Time Reviewed 5/10/24

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

REL-B01@3"

5/6/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405152-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.60		0.0987	mg/L	1	B4E0708	05/07/2024	05/08/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	704		25.0	mg/kg	1	B4E0602	05/06/2024	05/07/2024	
Residual Range Organics (C28-C40)	340		100	"	"	"	"	"	

Surrogate: o-Terphenyl	111 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	8.08		0.0500	mg/kg	25	B4E0641	05/06/2024	05/06/2024	
1,3,5-Trimethylbenzene	6.81		0.0500	"	"	"	"	"	
Benzene	ND		0.0500	"	"	"	"	"	R-05, Ua
Ethylbenzene	ND		0.0500	"	"	"	"	"	R-05, Ua
Toluene	0.0510		0.0500	"	"	"	"	"	
Xylenes, total	15.4		0.0500	"	"	"	"	"	
Gasoline Range Hydrocarbons	1690		50.0	"	250	"	"	05/07/2024	

Surrogate: 1,2-Dichloroethane-d4	96.2 %		70-130			"	"	05/06/2024	
Surrogate: Toluene-d8	147 %		70-130			"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

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Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

REL-B01@3"

5/6/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405152-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.24		0.499	meq/L	10	[CALC]	05/07/2024	05/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	17.7		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.509		0.002	mg/kg	1	B4E0640	05/06/2024	05/06/2024	
2-Methylnaphthalene	1.20		0.020	"	10	"	"	05/07/2024	
Acenaphthene	0.102		0.020	"	1	"	"	05/06/2024	
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	0.146		0.020	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	0.188		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	101 %		60-130			"	"	"	

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REL-B01@3"

5/6/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405152-01 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	94.2 %		60-130			B4E06 40	05/06/2024	05/06/2024	
Surrogate: Pyrene-d10	87.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.4 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.28			pH Units	1	B4E0719	05/07/2024	05/08/2024	
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SAR by 20B Saturated Paste

SAR	20.4		0.0100	SAR	1	B4E0714	05/07/2024	05/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.76		0.00500	mmhos/cm	1	B4E0719	05/07/2024	05/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.19		0.276	mg/kg	10	B4E0642	05/06/2024	05/07/2024	
Barium	270		9.50	"	"	"	"	"	
Cadmium	1.30		0.0950	"	"	"	"	"	
Copper	ND		9.50	"	"	"	"	"	
Lead	6.12		0.950	"	"	"	"	"	
Nickel	7.53		0.950	"	"	"	"	"	
Selenium	ND		0.247	"	"	"	"	"	

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Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

REL-B01@3"

5/6/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405152-01 (Soil)

Table 915 metals by EPA 6020B

Silver	ND		0.0950	mg/kg	10	B4E0642	05/06/2024	05/07/2024	
Zinc	35.2		35.2	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.106	0.265	mg/kg dry	1	2609023	05/08/2024	05/09/2024	U
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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

BG-01@3"

5/6/2024 9:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405152-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.232		0.100	mg/L	1	B4E0708	05/07/2024	05/08/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	2.15		0.499	meq/L	10	[CALC]	05/07/2024	05/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.45			pH Units	1	B4E0719	05/07/2024	05/08/2024	
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SAR by 20B Saturated Paste

SAR	0.0527		0.0100	SAR	1	B4E0714	05/07/2024	05/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.260		0.00500	mmhos/cm	1	B4E0719	05/07/2024	05/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.51		0.268	mg/kg	10	B4E0642	05/06/2024	05/07/2024	
Barium	652		9.23	"	"	"	"	"	
Cadmium	0.277		0.0923	"	"	"	"	"	
Copper	12.6		9.23	"	"	"	"	"	

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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

BG-01@3"

5/6/2024 9:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405152-02 (Soil)

Table 915 metals by EPA 6020B

Lead	12.1		0.923	mg/kg	10	B4E0642	05/06/2024	05/07/2024	
Nickel	10.9		0.923	"	"	"	"	"	
Selenium	ND		0.240	"	"	"	"	"	
Silver	ND		0.0923	"	"	"	"	"	
Zinc	45.9		34.1	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.0898	0.225	mg/kg dry	1	2609023	05/08/2024	05/09/2024	U
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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

BG-02@3"

5/6/2024 9:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405152-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.346		0.0999	mg/L	1	B4E0708	05/07/2024	05/08/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	3.62		0.499	meq/L	10	[CALC]	05/07/2024	05/08/2024	
Magnesium	1.63		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.15			pH Units	1	B4E0719	05/07/2024	05/08/2024	
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SAR by 20B Saturated Paste

SAR	0.0481		0.0100	SAR	1	B4E0714	05/07/2024	05/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.487		0.00500	mmhos/cm	1	B4E0719	05/07/2024	05/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.31		0.248	mg/kg	10	B4E0642	05/06/2024	05/07/2024	
Barium	327		8.56	"	"	"	"	"	
Cadmium	0.224		0.0856	"	"	"	"	"	
Copper	ND		8.56	"	"	"	"	"	

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6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller 29N 18N 4N-24HZ OSA

BG-02@3"

5/6/2024 9:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405152-03 (Soil)

Table 915 metals by EPA 6020B

Lead	6.14		0.856	mg/kg	10	B4E0642	05/06/2024	05/07/2024	
Nickel	3.55		0.856	"	"	"	"	"	
Selenium	ND		0.222	"	"	"	"	"	
Silver	ND		0.0856	"	"	"	"	"	
Zinc	ND		31.7	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.104	0.260	mg/kg dry	1	2609023	05/08/2024	05/09/2024	U
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Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

BG-03@3"

5/6/2024 9:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405152-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0999	mg/L	1	B4E0708	05/07/2024	05/08/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	05/07/2024	05/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.71			pH Units	1	B4E0719	05/07/2024	05/08/2024	
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SAR by 20B Saturated Paste

SAR	0.0780		0.0100	SAR	1	B4E0714	05/07/2024	05/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.144		0.00500	mmhos/cm	1	B4E0719	05/07/2024	05/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.29		0.267	mg/kg	10	B4E0647	05/06/2024	05/07/2024	
Barium	68.8		9.22	"	"	"	"	"	
Cadmium	0.281		0.0922	"	"	"	"	"	

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Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

BG-03@3"

5/6/2024 9:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405152-04 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.22	mg/kg	10	B4E0647	05/06/2024	05/07/2024	
Lead	8.33		0.922	"	"	"	"	"	
Nickel	2.89		0.922	"	"	"	"	"	
Selenium	ND		0.240	"	"	"	"	"	
Silver	ND		0.0922	"	"	"	"	"	
Zinc	ND		34.1	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.132	0.331	mg/kg dry	1	2609023	05/08/2024	05/09/2024	U
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Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

BG-04@3"

5/6/2024 9:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405152-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.169	0.0985	mg/L	1	B4E0708	05/07/2024	05/08/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.16	0.499	meq/L	10	[CALC]	05/07/2024	05/08/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.35		pH Units	1	B4E0719	05/07/2024	05/08/2024
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SAR by 20B Saturated Paste

SAR	0.0459	0.0100	SAR	1	B4E0714	05/07/2024	05/08/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.341	0.00500	mmhos/cm	1	B4E0719	05/07/2024	05/08/2024
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Table 915 metals by EPA 6020B

Arsenic	2.35	0.247	mg/kg	10	B4E0647	05/06/2024	05/07/2024
Barium	2750	8.50	"	"	"	"	"
Cadmium	0.207	0.0850	"	"	"	"	"
Copper	ND	8.50	"	"	"	"	"

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 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

BG-04@3"

5/6/2024 9:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405152-05 (Soil)

Table 915 metals by EPA 6020B

Lead	7.10		0.850	mg/kg	10	B4E0647	05/06/2024	05/07/2024	
Nickel	6.54		0.850	"	"	"	"	"	
Selenium	0.247		0.221	"	"	"	"	"	
Silver	ND		0.0850	"	"	"	"	"	
Zinc	ND		31.5	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.0880	0.220	mg/kg dry	1	2609023	05/08/2024	05/09/2024	U
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E0602 - EPA 3550B										
Blank (B4E0602-BLK1)										
					Prepared: 05/06/2024 Analyzed: 05/07/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		91.3	50-150			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4E0602 - EPA 3550B

LCS (B4E0602-BS1)

Prepared: 05/06/2024 Analyzed: 05/06/2024

Diesel (C10-C28)	1020	50.0	mg/kg	1000		102	70-130			
Residual Range Organics (C28-C40)	1100	200	"	1000		110	70-130			
Surrogate: o-Terphenyl	56		"	49.8		113	50-150			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4E0602 - EPA 3550B

Matrix Spike (B4E0602-MS1)	Source: Y405149-01			Prepared: 05/06/2024 Analyzed: 05/06/2024						
Diesel (C10-C28)	894	50.0	mg/kg	1000	ND	89.4	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.3	50-150			

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Tasman Geosciences
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Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E0602 - EPA 3550B										
Matrix Spike Dup (B4E0602-MSD1)		Source: Y405149-01			Prepared: 05/06/2024 Analyzed: 05/06/2024					
Diesel (C10-C28)	891	50.0	mg/kg	1000	ND	89.1	70-130	0.331	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	0.549	35	
Surrogate: o-Terphenyl	50		"	49.8		99.9	50-150			

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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4E0641 - EPA 5030 (soil)

Blank (B4E0641-BLK1)

Prepared: 05/06/2024 Analyzed: 05/06/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.



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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E0641 - EPA 5030 (soil)

LCS (B4E0641-BS1)

Prepared: 05/06/2024 Analyzed: 05/06/2024

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Naphthalene	0.114	0.00380	"	0.100		114	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.212	0.00400	"	0.200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	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 - Miller 29N 18N 4N-24HZ OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E0641 - EPA 5030 (soil)

Matrix Spike (B4E0641-MS1)	Source: Y405149-01			Prepared: 05/06/2024 Analyzed: 05/06/2024						
1,2,4-Trimethylbenzene	0.0967	0.00200	mg/kg	0.100	ND	96.7	70-130			
1,3,5-Trimethylbenzene	0.0987	0.00200	"	0.100	ND	98.7	70-130			
Benzene	0.0971	0.00200	"	0.100	ND	97.1	70-130			
Ethylbenzene	0.0951	0.00200	"	0.100	ND	95.1	70-130			
Naphthalene	0.104	0.00380	"	0.100	ND	104	70-130			
Toluene	0.0948	0.00200	"	0.100	ND	94.8	70-130			
o-Xylene	0.0941	0.00200	"	0.100	ND	94.1	70-130			
m,p-Xylene	0.188	0.00400	"	0.200	ND	94.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.3	70-130			

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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E0641 - EPA 5030 (soil)

Matrix Spike Dup (B4E0641-MSD1)	Source: Y405149-01			Prepared: 05/06/2024 Analyzed: 05/06/2024						
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130	10.6	20	
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130	9.97	20	
Benzene	0.106	0.00200	"	0.100	ND	106	70-130	8.75	20	
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	10.4	20	
Naphthalene	0.121	0.00380	"	0.100	ND	121	70-130	14.8	20	
Toluene	0.103	0.00200	"	0.100	ND	103	70-130	8.06	20	
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130	11.0	20	
m,p-Xylene	0.209	0.00400	"	0.200	ND	105	70-130	10.6	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4E0642 - EPA 3050B

Blank (B4E0642-BLK1)

Prepared: 05/06/2024 Analyzed: 05/08/2024

Arsenic	ND	0.0290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4E0642-BS1)

Prepared: 05/06/2024 Analyzed: 05/07/2024

Arsenic	5.40	0.290	mg/kg	5.00		108	80-120			
Barium	533	10.0	"	500		107	80-120			
Cadmium	5.38	0.100	"	5.00		108	80-120			
Copper	58.6	10.0	"	50.0		117	80-120			
Lead	5.42	1.00	"	5.00		108	80-120			
Nickel	5.87	1.00	"	5.00		117	80-120			
Selenium	10.5	0.260	"	9.50		110	80-120			
Silver	5.67	0.100	"	5.00		113	80-120			
Zinc	53.7	37.0	"	50.0		107	80-120			

Matrix Spike (B4E0642-MS1)

Source: Y405145-01

Prepared: 05/06/2024 Analyzed: 05/07/2024

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4E0642 - EPA 3050B

Matrix Spike (B4E0642-MS1)

Source: Y405145-01

Prepared: 05/06/2024 Analyzed: 05/07/2024

Arsenic	5.48	0.273	mg/kg	4.71	0.893	97.6	75-125		
Barium	532	9.41	"	471	36.1	105	75-125		
Cadmium	5.08	0.0941	"	4.71	0.0582	107	75-125		
Copper	57.9	9.41	"	47.1	3.01	117	75-125		
Lead	7.26	0.941	"	4.71	2.43	103	75-125		
Nickel	7.07	0.941	"	4.71	1.90	110	75-125		
Selenium	9.75	0.245	"	8.94	ND	109	75-125		
Silver	5.40	0.0941	"	4.71	ND	115	75-125		
Zinc	57.1	34.8	"	47.1	ND	121	75-125		

Matrix Spike Dup (B4E0642-MSD1)

Source: Y405145-01

Prepared: 05/06/2024 Analyzed: 05/07/2024

Arsenic	5.72	0.272	mg/kg	4.69	0.893	103	75-125	4.27	20
Barium	539	9.38	"	469	36.1	107	75-125	1.22	20
Cadmium	5.10	0.0938	"	4.69	0.0582	108	75-125	0.307	20
Copper	58.1	9.38	"	46.9	3.01	117	75-125	0.335	20
Lead	7.55	0.938	"	4.69	2.43	109	75-125	3.98	20
Nickel	7.06	0.938	"	4.69	1.90	110	75-125	0.131	20
Selenium	10.0	0.244	"	8.91	ND	112	75-125	2.59	20
Silver	5.36	0.0938	"	4.69	ND	114	75-125	0.619	20
Zinc	57.7	34.7	"	46.9	ND	123	75-125	1.03	20

Batch B4E0647 - EPA 3050B

Blank (B4E0647-BLK1)

Prepared: 05/06/2024 Analyzed: 05/07/2024

Arsenic	ND	0.290	mg/kg						
Barium	ND	10.0	"						
Cadmium	ND	0.100	"						

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Tasman Geosciences
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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4E0647 - EPA 3050B

Blank (B4E0647-BLK1)

Prepared: 05/06/2024 Analyzed: 05/07/2024

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

LCS (B4E0647-BS1)

Prepared: 05/06/2024 Analyzed: 05/07/2024

Arsenic	5.50	0.290	mg/kg	5.00		110	80-120			
Barium	521	10.0	"	500		104	80-120			
Cadmium	5.46	0.100	"	5.00		109	80-120			
Copper	58.4	10.0	"	50.0		117	80-120			
Lead	5.43	1.00	"	5.00		109	80-120			
Nickel	5.90	1.00	"	5.00		118	80-120			
Selenium	10.5	0.260	"	9.50		111	80-120			
Silver	5.84	0.100	"	5.00		117	80-120			
Zinc	53.6	37.0	"	50.0		107	80-120			

Matrix Spike (B4E0647-MS1)

Source: Y405152-04

Prepared: 05/06/2024 Analyzed: 05/07/2024

Arsenic	6.27	0.260	mg/kg	4.49	1.29	111	75-125			
Barium	562	8.98	"	449	68.8	110	75-125			
Cadmium	5.21	0.0898	"	4.49	0.281	110	75-125			
Copper	58.3	8.98	"	44.9	4.40	120	75-125			
Lead	13.4	0.898	"	4.49	8.33	112	75-125			
Nickel	8.07	0.898	"	4.49	2.89	115	75-125			
Selenium	9.23	0.233	"	8.53	0.147	107	75-125			
Silver	5.39	0.0898	"	4.49	0.0452	119	75-125			

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 6855 West 119th Avenue
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Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4E0647 - EPA 3050B

Matrix Spike (B4E0647-MS1)

Source: Y405152-04

Prepared: 05/06/2024 Analyzed: 05/07/2024

Zinc	65.5	33.2	mg/kg	44.9	16.6	109	75-125			
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Matrix Spike Dup (B4E0647-MSD1)

Source: Y405152-04

Prepared: 05/06/2024 Analyzed: 05/07/2024

Arsenic	6.04	0.253	mg/kg	4.36	1.29	109	75-125	3.73	20	
Barium	526	8.72	"	436	68.8	105	75-125	6.57	20	
Cadmium	5.10	0.0872	"	4.36	0.281	110	75-125	2.11	20	
Copper	57.3	8.72	"	43.6	4.40	121	75-125	1.70	20	
Lead	13.3	0.872	"	4.36	8.33	114	75-125	0.464	20	
Nickel	8.06	0.872	"	4.36	2.89	119	75-125	0.0188	20	
Selenium	9.45	0.227	"	8.29	0.147	112	75-125	2.31	20	
Silver	5.25	0.0872	"	4.36	0.0452	119	75-125	2.72	20	
Zinc	64.6	32.3	"	43.6	16.6	110	75-125	1.29	20	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4E0640 - EPA 3580

Blank (B4E0640-BLK1)

Prepared: 05/06/2024 Analyzed: 05/06/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	190		"	200		93.5	60-130			
Surrogate: Pyrene-d10	220		"	200		109	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

LCS (B4E0640-BS1)

Prepared: 05/06/2024 Analyzed: 05/06/2024

1-Methylnaphthalene	0.231	0.002	mg/kg	0.200		116	70-130			
2-Methylnaphthalene	0.229	0.002	"	0.200		115	70-130			
Acenaphthene	0.236	0.020	"	0.200		118	70-130			
Anthracene	0.215	0.020	"	0.200		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 - Miller 29N 18N 4N-24HZ OSA

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 B4E0640 - EPA 3580

LCS (B4E0640-BS1)

Prepared: 05/06/2024 Analyzed: 05/06/2024

Benzo (a) anthracene	0.230	0.005	mg/kg	0.200		115	70-130			
Benzo (a) pyrene	0.232	0.020	"	0.200		116	70-130			
Benzo (b) fluoranthene	0.239	0.020	"	0.200		120	70-130			
Benzo (g,h,i) perylene	0.214	0.020	"	0.200		107	70-130			
Benzo (k) fluoranthene	0.205	0.020	"	0.200		103	70-130			
Chrysene	0.234	0.020	"	0.200		117	70-130			
Dibenz (a,h) anthracene	0.240	0.020	"	0.200		120	70-130			
Fluoranthene	0.210	0.020	"	0.200		105	70-130			
Fluorene	0.248	0.020	"	0.200		124	70-130			
Indeno (1,2,3-cd) pyrene	0.217	0.020	"	0.200		109	70-130			
Naphthalene	0.236	0.002	"	0.200		118	70-130			
Phenanthrene	0.232	0.020	"	0.200		116	70-130			
Pyrene	0.253	0.020	"	0.200		126	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	190		"	200		92.7	60-130			
Surrogate: Pyrene-d10	220		"	200		109	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike (B4E0640-MS1)

Source: Y405148-01

Prepared: 05/06/2024 Analyzed: 05/07/2024

1-Methylnaphthalene	0.230	0.002	mg/kg	0.200	ND	115	70-130			
2-Methylnaphthalene	0.229	0.002	"	0.200	ND	115	70-130			
Acenaphthene	0.238	0.020	"	0.200	ND	119	70-130			
Anthracene	0.215	0.020	"	0.200	ND	107	70-130			
Benzo (a) anthracene	0.231	0.005	"	0.200	ND	116	70-130			
Benzo (a) pyrene	0.216	0.020	"	0.200	ND	108	70-130			
Benzo (b) fluoranthene	0.231	0.020	"	0.200	ND	116	70-130			
Benzo (g,h,i) perylene	0.218	0.020	"	0.200	ND	109	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4E0640 - EPA 3580

Matrix Spike (B4E0640-MS1)	Source: Y405148-01			Prepared: 05/06/2024 Analyzed: 05/07/2024						
Benzo (k) fluoranthene	0.214	0.020	mg/kg	0.200	0.0007	106	70-130			
Chrysene	0.226	0.020	"	0.200	ND	113	70-130			
Dibenz (a,h) anthracene	0.245	0.020	"	0.200	ND	123	70-130			
Fluoranthene	0.215	0.020	"	0.200	ND	107	70-130			
Fluorene	0.250	0.020	"	0.200	ND	125	70-130			
Indeno (1,2,3-cd) pyrene	0.221	0.020	"	0.200	0.002	109	70-130			
Naphthalene	0.237	0.002	"	0.200	ND	119	70-130			
Phenanthrene	0.224	0.020	"	0.200	ND	112	70-130			
Pyrene	0.221	0.020	"	0.200	ND	110	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	190		"	200		93.2	60-130			
Surrogate: Pyrene-d10	200		"	200		99.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B4E0640-MSD1)	Source: Y405148-01			Prepared: 05/06/2024 Analyzed: 05/06/2024						
1-Methylnaphthalene	0.232	0.002	mg/kg	0.200	ND	116	70-130	0.725	20	
2-Methylnaphthalene	0.230	0.002	"	0.200	ND	115	70-130	0.516	20	
Acenaphthene	0.236	0.020	"	0.200	ND	118	70-130	0.911	20	
Anthracene	0.224	0.020	"	0.200	ND	112	70-130	4.19	20	
Benzo (a) anthracene	0.227	0.005	"	0.200	ND	114	70-130	1.76	20	
Benzo (a) pyrene	0.229	0.020	"	0.200	ND	114	70-130	5.73	20	
Benzo (b) fluoranthene	0.226	0.020	"	0.200	ND	113	70-130	2.35	20	
Benzo (g,h,i) perylene	0.213	0.020	"	0.200	ND	106	70-130	2.31	20	
Benzo (k) fluoranthene	0.218	0.020	"	0.200	0.0007	109	70-130	2.13	20	
Chrysene	0.226	0.020	"	0.200	ND	113	70-130	0.156	20	
Dibenz (a,h) anthracene	0.239	0.020	"	0.200	ND	119	70-130	2.75	20	
Fluoranthene	0.201	0.020	"	0.200	ND	100	70-130	6.82	20	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4E0640 - EPA 3580

Matrix Spike Dup (B4E0640-MSD1)	Source: Y405148-01			Prepared: 05/06/2024 Analyzed: 05/06/2024						
Fluorene	0.248	0.020	mg/kg	0.200	ND	124	70-130	0.635	20	
Indeno (1,2,3-cd) pyrene	0.215	0.020	"	0.200	0.002	106	70-130	2.76	20	
Naphthalene	0.237	0.002	"	0.200	ND	119	70-130	0.0223	20	
Phenanthrene	0.228	0.020	"	0.200	ND	114	70-130	1.45	20	
Pyrene	0.256	0.020	"	0.200	ND	128	70-130	14.7	20	
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	190		"	200		93.7	60-130			
Surrogate: Pyrene-d10	220		"	200		112	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4E0708 - DTPA Sorbitol Preparation

Blank (B4E0708-BLK1)

Prepared: 05/07/2024 Analyzed: 05/08/2024

Boron ND 0.100 mg/L

Duplicate (B4E0708-DUP1)

Source: Y405149-01

Prepared: 05/07/2024 Analyzed: 05/08/2024

Boron 0.0543 0.101 mg/L 0.0388 33.2 50

Batch B4E0714 - Saturated Paste Metals

Blank (B4E0714-BLK1)

Prepared: 05/07/2024 Analyzed: 05/08/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B4E0714-DUP1)

Source: Y405105-31

Prepared: 05/07/2024 Analyzed: 05/08/2024

Calcium PPM 114 10.0 mg/L 122 6.29 50

SAR ND 0.0100 SAR 12.7 200

Magnesium PPM 79.2 10.0 mg/L 83.2 4.93 50

Sodium PPM 721 10.0 " 739 2.43 50

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E0719 - Saturated Paste pH/EC										
Blank (B4E0719-BLK1)					Prepared: 05/07/2024 Analyzed: 05/08/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4E0719-DUP1)					Source: Y405105-31 Prepared: 05/07/2024 Analyzed: 05/08/2024					
Specific Conductance (EC)	2.86	0.00500	mmhos/cm		2.92			2.05	25	
pH	7.72		pH Units		7.91			2.43	25	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2609023 - SW846 3060A										
BLANK (1205727546-BLK)					Prepared: 05/08/2024 Analyzed: 05/09/2024					
Hexavalent Chromium	ND	0.387	mg/kg				-			U
LCS (1205727547-BKS)					Prepared: 05/08/2024 Analyzed: 05/09/2024					
Hexavalent Chromium	3.87	0.390	mg/kg	3.90		99.2	80-120			
DUP (1205727548 D)					Source: 666471001 Prepared: 05/08/2024 Analyzed: 05/09/2024					
Hexavalent Chromium	ND	0.263	mg/kg dry		<0.105		0-50	N/A	50	U
MS (1205727549 S)					Source: 666471001 Prepared: 05/08/2024 Analyzed: 05/09/2024					
Hexavalent Chromium	1.91	0.263	mg/kg dry	2.63	<0.105	71.7	75-125			
DUP (1205727550 D)					Source: 666490001 Prepared: 05/08/2024 Analyzed: 05/09/2024					
Hexavalent Chromium	ND	0.250	mg/kg dry		<0.100		0-50	N/A	50	U
MS (1205727551 S)					Source: 666490001 Prepared: 05/08/2024 Analyzed: 05/09/2024					
Hexavalent Chromium	2.29	0.250	mg/kg dry	2.50	<0.100	89.4	75-125			
ILCS (1205727552-ILCS)					Prepared: 05/08/2024 Analyzed: 05/09/2024					
Hexavalent Chromium	7.95	0.390	mg/kg	7.83		102	80-120			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller 29N 18N 4N-24HZ OSA

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.

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.



June 13, 2024

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Miller 29N 18N 4N-24HZ
OSA

Project Number - [none]

Attached are your analytical results for KMG - Miller 29N 18N 4N-24HZ OSA received by Origins Laboratory, Inc. June 06, 2024. This project is associated with Origins project number Y406154-01.

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 - Miller 29N 18N 4N-24HZ OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
REL-B02@4'	Y406154-01	Soil	June 6, 2024 11:00	06/06/2024 13:26
REL-N01@3'	Y406154-02	Soil	June 6, 2024 11:02	06/06/2024 13:26
REL-S01@3'	Y406154-03	Soil	June 6, 2024 11:04	06/06/2024 13:26
REL-E01@3'	Y406154-04	Soil	June 6, 2024 11:06	06/06/2024 13:26
REL-W01@3'	Y406154-05	Soil	June 6, 2024 11:08	06/06/2024 13:26

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4400154 Client: Tasman
 Client Project ID: Miller 29N
 Checklist Completed by: JH/SHD Shipped Via: TUP
 Date/time completed: 10/10/12 (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, 11.0 °C _____ °C _____ °C _____ °C (Describe)
 Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/	/		SD
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	/	/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) WA

Date/Time Reviewed 10/10/12

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 - Miller 29N 18N 4N-24HZ OSA

REL-B02@4'
6/6/2024 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406154-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F0635	ADM	06/06/2024	06/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: *o*-Terphenyl 81.0 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F0638	JSM	06/06/2024	06/06/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
 Surrogate: Toluene-d8 98.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.9 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	1.31	0.499	meq/L	10	[CALC]	ACC	06/07/2024	06/11/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	3.20	0.435	"	"	"	ACC	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

REL-B02@4'
 6/6/2024 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406154-01 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F0642	agile	06/06/2024	06/07/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	0.008	0.005	"	"	"	agile	"	"	
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	0.022	0.020	"	"	"	agile	"	"	
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Phenanthrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	109 %	60-130			"	"	"	
Surrogate: Anthracene-d10	101 %	60-130			"	"	"	
Surrogate: Pyrene-d10	90.1 %	60-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

REL-B02@4'
 6/6/2024 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y406154-01 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	95.6 %	60-130			B4F06 42		06/06/2024	06/07/2024	
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SAR by 20B Saturated Paste

SAR	3.49	0.0100	SAR	1	B4F0709	ACC	06/07/2024	06/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.82	0.281	mg/kg	10	B4F0639	KMC	06/06/2024	06/07/2024	
Barium	171	9.70	"	"	"	KMC	"	"	
Cadmium	0.270	0.0970	"	"	"	KMC	"	"	
Lead	7.20	0.970	"	"	"	KMC	"	"	
Nickel	5.03	0.970	"	"	"	KMC	"	"	
Zinc	ND	35.9	"	"	"	KMC	"	"	

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

REL-N01@3'
 6/6/2024 11:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406154-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F0635	ADM	06/06/2024	06/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 76.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F0638	JSM	06/06/2024	06/06/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
 Surrogate: Toluene-d8 95.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.8 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	1.01	0.499	meq/L	10	[CALC]	ACC	06/07/2024	06/11/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	ND	0.435	"	"	"	ACC	"	"

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 - Miller 29N 18N 4N-24HZ OSA

REL-N01@3'
 6/6/2024 11:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406154-02 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F0642	agile	06/06/2024	06/07/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Phenanthrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	90.5 %	60-130			"	"	"
Surrogate: Anthracene-d10	89.0 %	60-130			"	"	"
Surrogate: Pyrene-d10	98.2 %	60-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

REL-N01@3'
 6/6/2024 11:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y406154-02 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	93.0 %	60-130			B4F06 42		06/06/2024	06/07/2024	
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SAR by 20B Saturated Paste

SAR	0.343	0.0100	SAR	1	B4F0709	ACC	06/07/2024	06/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.91	0.269	mg/kg	10	B4F0639	KMC	06/06/2024	06/07/2024	
Barium	163	9.28	"	"	"	KMC	"	"	
Cadmium	0.127	0.0928	"	"	"	KMC	"	"	
Lead	6.25	0.928	"	"	"	KMC	"	"	
Nickel	4.64	0.928	"	"	"	KMC	"	"	
Zinc	ND	34.3	"	"	"	KMC	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

REL-S01@3'
 6/6/2024 11:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406154-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F0635	ADM	06/06/2024	06/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 83.9 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F0638	JSM	06/06/2024	06/06/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
 Surrogate: Toluene-d8 97.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.2 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	1.17	0.499	meq/L	10	[CALC]	ACC	06/07/2024	06/11/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	ND	0.435	"	"	"	ACC	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

REL-S01@3'
 6/6/2024 11:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406154-03 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F0642	agile	06/06/2024	06/07/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Phenanthrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	109 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	97.9 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	117 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

REL-S01@3'
6/6/2024 11:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406154-03 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	94.3 %	60-130			B4F06 42		06/06/2024	06/07/2024	
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SAR by 20B Saturated Paste

SAR	0.492	0.0100	SAR	1	B4F0709	ACC	06/07/2024	06/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.36	0.252	mg/kg	10	B4F0639	KMC	06/06/2024	06/07/2024	
Barium	184	8.68	"	"	"	KMC	"	"	
Cadmium	0.114	0.0868	"	"	"	KMC	"	"	
Lead	5.28	0.868	"	"	"	KMC	"	"	
Nickel	4.20	0.868	"	"	"	KMC	"	"	
Zinc	ND	32.1	"	"	"	KMC	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

REL-E01@3'
 6/6/2024 11:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406154-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F0635	ADM	06/06/2024	06/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 85.9 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F0638	JSM	06/06/2024	06/06/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
 Surrogate: Toluene-d8 97.0 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 99.7 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	0.847	0.499	meq/L	10	[CALC]	ACC	06/07/2024	06/11/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	1.25	0.435	"	"	"	ACC	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

REL-E01@3'
 6/6/2024 11:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406154-04 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F0642	agile	06/06/2024	06/07/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Phenanthrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	106 %	60-130			"	"	"	
Surrogate: Anthracene-d10	86.1 %	60-130			"	"	"	
Surrogate: Pyrene-d10	103 %	60-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

REL-E01@3'
 6/6/2024 11:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y406154-04 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	90.5 %	60-130			B4F06 42		06/06/2024	06/07/2024	
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SAR by 20B Saturated Paste

SAR	1.62	0.0100	SAR	1	B4F0709	ACC	06/07/2024	06/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.67	0.250	mg/kg	10	B4F0639	KMC	06/06/2024	06/07/2024	
Barium	124	8.62	"	"	"	KMC	"	"	
Cadmium	0.115	0.0862	"	"	"	KMC	"	"	
Lead	6.36	0.862	"	"	"	KMC	"	"	
Nickel	4.23	0.862	"	"	"	KMC	"	"	
Zinc	ND	31.9	"	"	"	KMC	"	"	

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 - Miller 29N 18N 4N-24HZ OSA

REL-W01@3'
 6/6/2024 11:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406154-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F0635	ADM	06/06/2024	06/06/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 82.1 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F0638	JSM	06/06/2024	06/06/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
 Surrogate: Toluene-d8 97.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.2 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	3.02	0.499	meq/L	10	[CALC]	ACC	06/07/2024	06/11/2024
Magnesium	1.09	0.823	"	"	"	ACC	"	"
Sodium	4.92	0.435	"	"	"	ACC	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

REL-W01@3'
 6/6/2024 11:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406154-05 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F0642	agile	06/06/2024	06/07/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Phenanthrene	ND	0.020	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	85.3 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	90.8 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	126 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

REL-W01@3'
 6/6/2024 11:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y406154-05 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	101 %	60-130			B4F06 42		06/06/2024	06/07/2024	
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SAR by 20B Saturated Paste

SAR	3.43	0.0100	SAR	1	B4F0709	ACC	06/07/2024	06/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.85	0.259	mg/kg	10	B4F0639	KMC	06/06/2024	06/07/2024	
Barium	136	8.94	"	"	"	KMC	"	"	
Cadmium	0.144	0.0894	"	"	"	KMC	"	"	
Lead	7.75	0.894	"	"	"	KMC	"	"	
Nickel	5.10	0.894	"	"	"	KMC	"	"	
Zinc	ND	33.1	"	"	"	KMC	"	"	

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 - Miller 29N 18N 4N-24HZ OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F0635 - EPA 3550B										
Blank (B4F0635-BLK1)										
					Prepared: 06/06/2024 Analyzed: 06/06/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		82.2	50-150			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4F0635 - EPA 3550B

LCS (B4F0635-BS1)

Prepared: 06/06/2024 Analyzed: 06/06/2024

Diesel (C10-C28)	949	50.0	mg/kg	1000		94.9	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000		109	70-130			
Surrogate: o-Terphenyl	46		"	49.8		93.2	50-150			

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Tasman Geosciences
 6855 West 119th Avenue
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Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4F0635 - EPA 3550B

Matrix Spike (B4F0635-MS1)	Source: Y406154-01			Prepared: 06/06/2024 Analyzed: 06/06/2024						
Diesel (C10-C28)	882	50.0	mg/kg	1000	ND	88.2	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.0	50-150			

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Tasman Geosciences
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Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F0635 - EPA 3550B										
Matrix Spike Dup (B4F0635-MSD1)		Source: Y406154-01			Prepared: 06/06/2024 Analyzed: 06/06/2024					
Diesel (C10-C28)	897	50.0	mg/kg	1000	ND	89.7	70-130	1.71	35	
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130	0.826	35	
Surrogate: o-Terphenyl	49		"	49.8		98.1	50-150			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4F0638 - EPA 5030 (soil)

Blank (B4F0638-BLK1)

Prepared: 06/06/2024 Analyzed: 06/06/2024

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	105		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.4		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.8		70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F0638 - EPA 5030 (soil)

LCS (B4F0638-BS1)

Prepared: 06/06/2024 Analyzed: 06/06/2024

1,2,4-Trimethylbenzene	0.0928	0.00200	mg/kg	0.100		92.8	70-130			
1,3,5-Trimethylbenzene	0.0928	0.00200	"	0.100		92.8	70-130			
Benzene	0.0950	0.00200	"	0.100		95.0	70-130			
Ethylbenzene	0.0907	0.00200	"	0.100		90.7	70-130			
Naphthalene	0.0980	0.00380	"	0.100		98.0	70-130			
Toluene	0.0918	0.00200	"	0.100		91.8	70-130			
o-Xylene	0.0892	0.00200	"	0.100		89.2	70-130			
m,p-Xylene	0.180	0.00400	"	0.200		90.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Tasman Geosciences
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Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F0638 - EPA 5030 (soil)

Matrix Spike (B4F0638-MS1)	Source: Y406154-01			Prepared: 06/06/2024 Analyzed: 06/06/2024						
1,2,4-Trimethylbenzene	0.0847	0.00200	mg/kg	0.100	ND	84.7	70-130			
1,3,5-Trimethylbenzene	0.0856	0.00200	"	0.100	ND	85.6	70-130			
Benzene	0.0873	0.00200	"	0.100	ND	87.3	70-130			
Ethylbenzene	0.0830	0.00200	"	0.100	ND	83.0	70-130			
Naphthalene	0.0865	0.00380	"	0.100	ND	86.5	70-130			
Toluene	0.0833	0.00200	"	0.100	ND	83.3	70-130			
o-Xylene	0.0774	0.00200	"	0.100	ND	77.4	70-130			
m,p-Xylene	0.160	0.00400	"	0.200	ND	79.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F0638 - EPA 5030 (soil)

Matrix Spike Dup (B4F0638-MSD1)	Source: Y406154-01			Prepared: 06/06/2024 Analyzed: 06/06/2024						
1,2,4-Trimethylbenzene	0.0738	0.00200	mg/kg	0.100	ND	73.8	70-130	13.8	20	
1,3,5-Trimethylbenzene	0.0789	0.00200	"	0.100	ND	78.9	70-130	8.19	20	
Benzene	0.0818	0.00200	"	0.100	ND	81.8	70-130	6.60	20	
Ethylbenzene	0.0765	0.00200	"	0.100	ND	76.5	70-130	8.15	20	
Naphthalene	0.0792	0.00380	"	0.100	ND	79.2	70-130	8.79	20	
Toluene	0.0760	0.00200	"	0.100	ND	76.0	70-130	9.14	20	
o-Xylene	0.0720	0.00200	"	0.100	ND	72.0	70-130	7.20	20	
m,p-Xylene	0.147	0.00400	"	0.200	ND	73.4	70-130	8.49	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Tasman Geosciences
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Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4F0639 - EPA 3050B

Blank (B4F0639-BLK1)

Prepared: 06/06/2024 Analyzed: 06/07/2024

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

LCS (B4F0639-BS1)

Prepared: 06/06/2024 Analyzed: 06/07/2024

Arsenic	5.45	0.290	mg/kg	5.00		109	80-120			
Barium	539	10.0	"	500		108	80-120			
Cadmium	5.57	0.100	"	5.00		111	80-120			
Copper	56.7	10.0	"	50.0		113	80-120			
Lead	5.53	1.00	"	5.00		111	80-120			
Nickel	5.55	1.00	"	5.00		111	80-120			
Selenium	10.9	0.260	"	9.50		115	80-120			
Silver	5.60	0.100	"	5.00		112	80-120			
Zinc	53.8	37.0	"	50.0		108	80-120			

Matrix Spike (B4F0639-MS1)

Source: Y406158-01

Prepared: 06/06/2024 Analyzed: 06/07/2024

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Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F0639 - EPA 3050B										
Matrix Spike (B4F0639-MS1)			Source: Y406158-01			Prepared: 06/06/2024 Analyzed: 06/07/2024				
Arsenic	8.69	0.256	mg/kg	4.42	2.83	133	75-125			QM-07
Barium	609	8.84	"	442	96.4	116	75-125			
Cadmium	5.06	0.0884	"	4.42	0.109	112	75-125			
Copper	62.8	8.84	"	44.2	10.1	119	75-125			
Lead	27.9	0.884	"	4.42	22.8	117	75-125			
Nickel	15.3	0.884	"	4.42	6.19	206	75-125			QM-07
Selenium	9.19	0.230	"	8.40	0.162	107	75-125			
Silver	5.00	0.0884	"	4.42	0.0493	112	75-125			
Zinc	113	32.7	"	44.2	43.2	159	75-125			QM-07
Matrix Spike Dup (B4F0639-MSD1)			Source: Y406158-01			Prepared: 06/06/2024 Analyzed: 06/07/2024				
Arsenic	8.53	0.246	mg/kg	4.24	2.83	134	75-125	1.95	20	QM-07
Barium	611	8.49	"	424	96.4	121	75-125	0.324	20	
Cadmium	5.24	0.0849	"	4.24	0.109	121	75-125	3.60	20	
Copper	64.5	8.49	"	42.4	10.1	128	75-125	2.66	20	QM-07
Lead	33.2	0.849	"	4.24	22.8	246	75-125	17.2	20	QM-07
Nickel	14.8	0.849	"	4.24	6.19	202	75-125	3.67	20	QM-07
Selenium	9.47	0.221	"	8.06	0.162	115	75-125	3.07	20	
Silver	5.16	0.0849	"	4.24	0.0493	120	75-125	3.14	20	
Zinc	104	31.4	"	42.4	43.2	144	75-125	8.49	20	QM-07

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Tasman Geosciences
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Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4F0642 - EPA 3580

Blank (B4F0642-BLK1)

Prepared: 06/06/2024 Analyzed: 06/07/2024

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	170		ug/kg	200		84.6	60-130			
Surrogate: Anthracene-d10	190		"	200		94.4	60-130			
Surrogate: Pyrene-d10	200		"	200		98.8	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.4	60-130			

LCS (B4F0642-BS1)

Prepared: 06/06/2024 Analyzed: 06/07/2024

1-Methylnaphthalene	0.198	0.002	mg/kg	0.200		99.0	70-130			
2-Methylnaphthalene	0.204	0.002	"	0.200		102	70-130			
Acenaphthene	0.207	0.020	"	0.200		104	70-130			
Anthracene	0.202	0.020	"	0.200		101	70-130			

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Tasman Geosciences
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Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4F0642 - EPA 3580

LCS (B4F0642-BS1)

Prepared: 06/06/2024 Analyzed: 06/07/2024

Benzo (a) anthracene	0.230	0.005	mg/kg	0.200		115	70-130			
Benzo (a) pyrene	0.210	0.020	"	0.200		105	70-130			
Benzo (b) fluoranthene	0.229	0.020	"	0.200		115	70-130			
Benzo (g,h,i) perylene	0.222	0.020	"	0.200		111	70-130			
Benzo (k) fluoranthene	0.218	0.020	"	0.200		109	70-130			
Chrysene	0.210	0.020	"	0.200		105	70-130			
Dibenz (a,h) anthracene	0.211	0.020	"	0.200		105	70-130			
Fluoranthene	0.189	0.020	"	0.200		94.5	70-130			
Fluorene	0.210	0.020	"	0.200		105	70-130			
Indeno (1,2,3-cd) pyrene	0.228	0.020	"	0.200		114	70-130			
Naphthalene	0.202	0.002	"	0.200		101	70-130			
Phenanthrene	0.202	0.020	"	0.200		101	70-130			
Pyrene	0.211	0.020	"	0.200		105	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.6	60-130			
Surrogate: Anthracene-d10	180		"	200		92.4	60-130			
Surrogate: Pyrene-d10	190		"	200		96.0	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.2	60-130			

Matrix Spike (B4F0642-MS1)

Source: Y406158-01

Prepared: 06/06/2024 Analyzed: 06/07/2024

1-Methylnaphthalene	0.180	0.002	mg/kg	0.200	ND	89.8	70-130			
2-Methylnaphthalene	0.193	0.002	"	0.200	ND	96.7	70-130			
Acenaphthene	0.186	0.020	"	0.200	0.003	91.2	70-130			
Anthracene	0.185	0.020	"	0.200	0.0007	92.3	70-130			
Benzo (a) anthracene	0.197	0.005	"	0.200	0.002	97.5	70-130			
Benzo (a) pyrene	0.199	0.020	"	0.200	0.002	98.4	70-130			
Benzo (b) fluoranthene	0.152	0.020	"	0.200	0.0004	75.8	70-130			
Benzo (g,h,i) perylene	0.150	0.020	"	0.200	0.0005	74.9	70-130			

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 6855 West 119th Avenue
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Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4F0642 - EPA 3580

Matrix Spike (B4F0642-MS1)		Source: Y406158-01			Prepared: 06/06/2024 Analyzed: 06/07/2024					
Benzo (k) fluoranthene	0.152	0.020	mg/kg	0.200	0.0008	75.7	70-130			
Chrysene	0.177	0.020	"	0.200	0.001	87.7	70-130			
Dibenz (a,h) anthracene	0.148	0.020	"	0.200	0.001	73.6	70-130			
Fluoranthene	0.208	0.020	"	0.200	0.0006	104	70-130			
Fluorene	0.171	0.020	"	0.200	0.003	83.6	70-130			
Indeno (1,2,3-cd) pyrene	0.157	0.020	"	0.200	ND	78.5	70-130			
Naphthalene	0.181	0.002	"	0.200	ND	90.4	70-130			
Phenanthrene	0.175	0.020	"	0.200	ND	87.5	70-130			
Pyrene	0.213	0.020	"	0.200	ND	107	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		95.6	60-130			
Surrogate: Anthracene-d10	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	230		"	200		115	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.2	60-130			

Matrix Spike Dup (B4F0642-MSD1)		Source: Y406158-01			Prepared: 06/06/2024 Analyzed: 06/07/2024					
1-Methylnaphthalene	0.205	0.002	mg/kg	0.200	ND	102	70-130	13.0	20	
2-Methylnaphthalene	0.209	0.002	"	0.200	ND	104	70-130	7.61	20	
Acenaphthene	0.202	0.020	"	0.200	0.003	99.3	70-130	8.32	20	
Anthracene	0.185	0.020	"	0.200	0.0007	91.9	70-130	0.425	20	
Benzo (a) anthracene	0.239	0.005	"	0.200	0.002	119	70-130	19.3	20	
Benzo (a) pyrene	0.198	0.020	"	0.200	0.002	98.1	70-130	0.244	20	
Benzo (b) fluoranthene	0.164	0.020	"	0.200	0.0004	81.7	70-130	7.44	20	
Benzo (g,h,i) perylene	0.222	0.020	"	0.200	0.0005	111	70-130	38.2	20	QR-02
Benzo (k) fluoranthene	0.151	0.020	"	0.200	0.0008	75.3	70-130	0.518	20	
Chrysene	0.226	0.020	"	0.200	0.001	112	70-130	24.4	20	QR-02
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	0.001	107	70-130	37.1	20	QR-02
Fluoranthene	0.235	0.020	"	0.200	0.0006	117	70-130	12.2	20	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4F0642 - EPA 3580

Matrix Spike Dup (B4F0642-MSD1)	Source: Y406158-01			Prepared: 06/06/2024 Analyzed: 06/07/2024						
Fluorene	0.186	0.020	mg/kg	0.200	0.003	91.2	70-130	8.53	20	
Indeno (1,2,3-cd) pyrene	0.222	0.020	"	0.200	ND	111	70-130	34.4	20	QR-02
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130	11.3	20	
Phenanthrene	0.179	0.020	"	0.200	ND	89.5	70-130	2.30	20	
Pyrene	0.250	0.020	"	0.200	ND	125	70-130	16.0	20	
Surrogate: Fluorene-d10	200		ug/kg	200		97.8	60-130			
Surrogate: Anthracene-d10	180		"	200		87.7	60-130			
Surrogate: Pyrene-d10	230		"	200		117	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		91.7	60-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 B4F0709 - Saturated Paste Metals

Blank (B4F0709-BLK1)

Prepared: 06/07/2024 Analyzed: 06/11/2024

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

Duplicate (B4F0709-DUP1)

Source: Y406065-01

Prepared: 06/07/2024 Analyzed: 06/11/2024

Calcium PPM	29.0	10.0	mg/L		29.2			0.619	50	
SAR	ND	0.0100	SAR		2.83				200	
Magnesium PPM	20.2	10.0	mg/L		19.7			2.16	50	
Sodium PPM	82.6	10.0	"		80.8			2.29	50	

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller 29N 18N 4N-24HZ OSA

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 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.

December 16, 2022

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Miller 23-24 Reclamation Project Number - [none]

Attached are your analytical results for KMG - Miller 23-24 Reclamation received by Origins Laboratory, Inc. December 08, 2022. This project is associated with Origins project number Y212196-01.

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 - Miller 23-24 Reclamation

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
REC-SS01@3"	Y212196-01	Soil	December 8, 2022 11:30	12/08/2022 16:30
REC-SS02@3"	Y212196-02	Soil	December 8, 2022 11:32	12/08/2022 16:30
REC-SS03@3"	Y212196-03	Soil	December 8, 2022 11:34	12/08/2022 16:30
REC-BG01@1'	Y212196-04	Soil	December 8, 2022 11:36	12/08/2022 16:30
REC-BG02@1'	Y212196-05	Soil	December 8, 2022 11:38	12/08/2022 16:30
REC-BG03@1'	Y212196-06	Soil	December 8, 2022 11:40	12/08/2022 16:30
REC-BG04@3"	Y212196-07	Soil	December 8, 2022 11:42	12/08/2022 16:30

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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 - Miller 23-24 Reclamation

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4212196

Client: Tasman

Client Project ID: Miller 23-24 Reclamation

Checklist Completed by: EHS DE

Shipped Via: HD

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

Date/time completed: 1218122

Airbill #: NA

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

Cooler Number/Temperature: 113 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 7004

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

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

[Signature]
 Reviewed by (Project Manager)

12/08/2012
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

Jen Pellegrini, Project Manager

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 - Miller 23-24 Reclamation

REC-SS01@3"
12/8/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212196-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.504		0.0992	mg/L	1	B2L0907	12/09/2022	12/12/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	117		25.0	mg/kg	1	B2L0831	12/08/2022	12/08/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00648		0.00200	mg/kg	1	B2L0848	12/08/2022	12/08/2022	
1,3,5-Trimethylbenzene	0.00344		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.00654		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.255		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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 - Miller 23-24 Reclamation

REC-SS01@3"
12/8/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212196-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	108 %		70-130			B2L08 48	12/08/2022	12/08/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	5.82		0.499	meq/L	10	[CALC]	12/09/2022	12/12/2022	
Magnesium	2.75		0.823	"	"	"	"	"	
Sodium	33.7		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.154	0.0101	0.0101	mg/Kg	5	L653294	12/12/2022	12/13/2022	
2-Methylnaphthalene	0.285	0.0101	0.0101	"	"	"	"	"	
Acenaphthene	0.0343	0.00335	0.00335	"	"	"	"	"	
Anthracene	ND	0.00335	0.00335	"	"	"	"	"	
Benzo(a)anthracene	0.0116	0.00335	0.00335	"	"	"	"	"	
Benzo(a)pyrene	0.00766	0.00335	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	0.0122	0.00335	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	0.0036	0.00335	0.00335	"	"	"	"	"	
Chrysene	0.0293	0.00335	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	0.0049	0.00335	0.00335	"	"	"	"	"	
Fluoranthene	0.0096	0.00335	0.00335	"	"	"	"	"	
Fluorene	0.0638	0.00335	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.00582	0.00335	0.00335	"	"	"	"	"	
Naphthalene	0.0834	0.0101	0.0101	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

REC-SS01@3"
12/8/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y212196-01 (Soil)

PAH by 8270D SIM

Pyrene	0.0241	0.00335	0.00335	mg/Kg	5	L653294	12/12/2022	12/13/2022	
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Surrogate: 2-Fluorobiphenyl	44.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	48 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	44.4 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.31			pH Units	1	B2L0911	12/09/2022	12/10/2022	
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SAR by 20B Saturated Paste

SAR	16.3			SAR	1	B2L0903	12/09/2022	12/12/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.12		0.00500	mmhos/cm	1	B2L0911	12/09/2022	12/10/2022	
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Table 915 metals by EPA 6020B

Arsenic	6.42		0.0878	mg/kg	10	B2L0844	12/08/2022	12/08/2022	
Barium	2780		8.78	"	"	"	"	"	
Cadmium	0.533		0.0878	"	"	"	"	"	
Copper	15.7		8.78	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

REC-SS01@3"
12/8/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212196-01 (Soil)

Table 915 metals by EPA 6020B

Lead	11.9		8.78	mg/kg	10	B2L0844	12/08/2022	12/08/2022	
Nickel	18.0		8.78	"	"	"	"	"	
Selenium	1.14		0.0878	"	"	"	"	"	
Silver	0.125		0.0878	"	"	"	"	"	
Zinc	ND		87.8	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.51	mg/Kg	5	L653733	12/08/2022	12/14/2022	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

REC-SS02@3"
12/8/2022 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212196-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.993	mg/L	10	B2L0907	12/09/2022	12/13/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2L0831	12/08/2022	12/08/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	84.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2L0848	12/08/2022	12/08/2022	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

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

REC-SS02@3"
12/8/2022 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212196-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			B2L08 48	12/08/2022	12/08/2022	
Surrogate: Toluene-d8	103 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	25.9		0.499	meq/L	10	[CALC]	12/09/2022	12/12/2022	
Magnesium	12.2		0.823	"	"	"	"	"	
Sodium	36.1		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.12			pH Units	1	B2L0911	12/09/2022	12/10/2022	
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SAR by 20B Saturated Paste

SAR	8.26			SAR	1	B2L0903	12/09/2022	12/12/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.05		0.00500	mmhos/cm	1	B2L0911	12/09/2022	12/10/2022	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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 - Miller 23-24 Reclamation

REC-SS03@3"
12/8/2022 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212196-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.541		0.0984	mg/L	1	B2L0907	12/09/2022	12/12/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	54.4		25.0	mg/kg	1	B2L0831	12/08/2022	12/08/2022	
Residual Range Organics (C28-C40)	104		100	"	"	"	"	"	

Surrogate: o-Terphenyl	86.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00250		0.00200	mg/kg	1	B2L0848	12/08/2022	12/08/2022	
1,3,5-Trimethylbenzene	0.00286		0.00200	"	"	"	"	"	
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	105 %		70-130			"	"	"	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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 - Miller 23-24 Reclamation

REC-SS03@3"
12/8/2022 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212196-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %		70-130			B2L08 48	12/08/2022	12/08/2022	
Surrogate: 4-Bromofluorobenzene	112 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.91		0.499	meq/L	10	[CALC]	12/09/2022	12/12/2022	
Magnesium	1.62		0.823	"	"	"	"	"	
Sodium	24.0		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.42			pH Units	1	B2L0911	12/09/2022	12/10/2022	
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SAR by 20B Saturated Paste

SAR	15.9			SAR	1	B2L0903	12/09/2022	12/12/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.95		0.00500	mmhos/cm	1	B2L0911	12/09/2022	12/10/2022	
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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 - Miller 23-24 Reclamation

REC-BG01@1'
 12/8/2022 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y212196-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.171		0.100	mg/L	1	B2L0907	12/09/2022	12/12/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	27.6		0.499	meq/L	10	[CALC]	12/09/2022	12/12/2022	
Magnesium	11.6		0.823	"	"	"	"	"	
Sodium	27.3		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.03			pH Units	1	B2L0911	12/09/2022	12/10/2022	
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SAR by 20B Saturated Paste

SAR	6.17			SAR	1	B2L0903	12/09/2022	12/12/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.94		0.00500	mmhos/cm	1	B2L0911	12/09/2022	12/10/2022	
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Table 915 metals by EPA 6020B

Arsenic	4.45		0.0986	mg/kg	10	B2L0844	12/08/2022	12/08/2022	
Barium	1630		9.86	"	"	"	"	"	
Cadmium	0.112		0.0986	"	"	"	"	"	
Copper	ND		9.86	"	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

REC-BG01@1'

12/8/2022 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y212196-04 (Soil)

Table 915 metals by EPA 6020B

Lead	ND		9.86	mg/kg	10	B2L0844	12/08/2022	12/08/2022	U
Nickel	ND		9.86	"	"	"	"	"	U
Selenium	0.351		0.0986	"	"	"	"	"	
Silver	ND		0.0986	"	"	"	"	"	U
Zinc	ND		98.6	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.502	1.03	mg/Kg	2	L653733	12/08/2022	12/14/2022	
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

REC-BG02@1'

12/8/2022 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212196-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.513		0.0983	mg/L	1	B2L0908	12/09/2022	12/12/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	26.3		0.499	meq/L	10	[CALC]	12/09/2022	12/12/2022	
Magnesium	11.5		0.823	"	"	"	"	"	
Sodium	22.0		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.05			pH Units	1	B2L0911	12/09/2022	12/10/2022	
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SAR by 20B Saturated Paste

SAR	5.06			SAR	1	B2L0903	12/09/2022	12/12/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.79		0.00500	mmhos/cm	1	B2L0911	12/09/2022	12/10/2022	
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Table 915 metals by EPA 6020B

Arsenic	3.84		0.0912	mg/kg	10	B2L0844	12/08/2022	12/08/2022	
Barium	2740		9.12	"	"	"	"	"	
Cadmium	0.434		0.0912	"	"	"	"	"	
Copper	10.3		9.12	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

REC-BG02@1'
 12/8/2022 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y212196-05 (Soil)

Table 915 metals by EPA 6020B

Lead	9.48		9.12	mg/kg	10	B2L0844	12/08/2022	12/08/2022	
Nickel	11.7		9.12	"	"	"	"	"	
Selenium	0.742		0.0912	"	"	"	"	"	
Silver	ND		0.0912	"	"	"	"	"	U
Zinc	ND		91.2	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	1.26	2.58	mg/Kg	5	L653733	12/08/2022	12/14/2022	
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Jen Pellegrini, Project Manager

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

REC-BG03@1'

12/8/2022 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212196-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.363		0.0989	mg/L	1	B2L0908	12/09/2022	12/12/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	17.1		0.499	meq/L	10	[CALC]	12/09/2022	12/12/2022	
Magnesium	6.02		0.823	"	"	"	"	"	
Sodium	8.99		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.91			pH Units	1	B2L0911	12/09/2022	12/10/2022	
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SAR by 20B Saturated Paste

SAR	2.65			SAR	1	B2L0903	12/09/2022	12/12/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.75		0.00500	mmhos/cm	1	B2L0911	12/09/2022	12/10/2022	
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Table 915 metals by EPA 6020B

Arsenic	4.96		0.0929	mg/kg	10	B2L0844	12/08/2022	12/08/2022	
Barium	2980		9.29	"	"	"	"	"	
Cadmium	0.290		0.0929	"	"	"	"	"	
Copper	ND		9.29	"	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

REC-BG03@1'

12/8/2022 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y212196-06 (Soil)

Table 915 metals by EPA 6020B

Lead	ND		9.29	mg/kg	10	B2L0844	12/08/2022	12/08/2022	U
Nickel	10.1		9.29	"	"	"	"	"	
Selenium	0.646		0.0929	"	"	"	"	"	
Silver	ND		0.0929	"	"	"	"	"	U
Zinc	ND		92.9	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	5	L653733	12/08/2022	12/14/2022	
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

REC-BG04@3"

12/8/2022 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y212196-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.321		0.101	mg/L	1	B2L0908	12/09/2022	12/12/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	4.78		0.499	meq/L	10	[CALC]	12/09/2022	12/12/2022	
Magnesium	1.32		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.13			pH Units	1	B2L0911	12/09/2022	12/10/2022	
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SAR by 20B Saturated Paste

SAR	0.227			SAR	1	B2L0903	12/09/2022	12/12/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.967		0.00500	mmhos/cm	1	B2L0911	12/09/2022	12/10/2022	
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Table 915 metals by EPA 6020B

Arsenic	2.26		0.0942	mg/kg	10	B2L0844	12/08/2022	12/08/2022	
Barium	1360		9.42	"	"	"	"	"	
Cadmium	0.199		0.0942	"	"	"	"	"	
Copper	ND		9.42	"	"	"	"	"	U

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

REC-BG04@3"

12/8/2022 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y212196-07 (Soil)

Table 915 metals by EPA 6020B

Lead	ND		9.42	mg/kg	10	B2L0844	12/08/2022	12/08/2022	U
Nickel	ND		9.42	"	"	"	"	"	U
Selenium	0.318		0.0942	"	"	"	"	"	
Silver	ND		0.0942	"	"	"	"	"	U
Zinc	ND		94.2	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	1.23	2.53	mg/Kg	5	L653733	12/08/2022	12/14/2022	
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2L0831 - EPA 3580										
Blank (B2L0831-BLK1)										
					Prepared: 12/08/2022 Analyzed: 12/08/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		83.5	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 - Miller 23-24 Reclamation

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 B2L0831 - EPA 3580

LCS (B2L0831-BS1)

Prepared: 12/08/2022 Analyzed: 12/08/2022

Diesel (C10-C28)	972	50.0	mg/kg	1000		97.2	70-130			
Residual Range Organics (C28-C40)	826	200	"	1000		82.6	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.9	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 - Miller 23-24 Reclamation

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 B2L0831 - EPA 3580

Matrix Spike (B2L0831-MS1)	Source: Y212188-01			Prepared: 12/08/2022 Analyzed: 12/08/2022						
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	816	200	"	1000	ND	81.6	70-130			
Surrogate: o-Terphenyl	37		"	49.8		73.6	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

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 B2L0831 - EPA 3580

Matrix Spike Dup (B2L0831-MSD1)	Source: Y212188-01			Prepared: 12/08/2022 Analyzed: 12/08/2022						
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130	5.70	35	
Residual Range Organics (C28-C40)	840	200	"	1000	ND	84.0	70-130	2.86	35	
Surrogate: o-Terphenyl	38		"	49.8		75.5	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 - Miller 23-24 Reclamation

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 B2L0848 - EPA 5030 (soil)

Blank (B2L0848-BLK1)

Prepared: 12/08/2022 Analyzed: 12/08/2022

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	97.4		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	104		70-130			

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Jen Pellegrini, Project Manager

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2L0848 - EPA 5030 (soil)

LCS (B2L0848-BS1)

Prepared: 12/08/2022 Analyzed: 12/08/2022

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.118	0.00200	"	0.100		118	70-130			
Naphthalene	0.0983	0.00380	"	0.100		98.3	70-130			
Toluene	0.107	0.00200	"	0.100		107	70-130			
o-Xylene	0.115	0.00200	"	0.100		115	70-130			
m,p-Xylene	0.225	0.00400	"	0.200		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		116	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2L0848 - EPA 5030 (soil)

Matrix Spike (B2L0848-MS1)	Source: Y212188-01			Prepared: 12/08/2022 Analyzed: 12/08/2022						
1,2,4-Trimethylbenzene	0.0897	0.00200	mg/kg	0.100	ND	89.7	70-130			
1,3,5-Trimethylbenzene	0.0904	0.00200	"	0.100	ND	90.4	70-130			
Benzene	0.0893	0.00200	"	0.100	ND	89.3	70-130			
Ethylbenzene	0.0970	0.00200	"	0.100	ND	97.0	70-130			
Naphthalene	0.0836	0.00380	"	0.100	ND	83.6	70-130			
Toluene	0.0877	0.00200	"	0.100	ND	87.7	70-130			
o-Xylene	0.0934	0.00200	"	0.100	ND	93.4	70-130			
m,p-Xylene	0.186	0.00400	"	0.200	ND	93.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		115	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2L0848 - EPA 5030 (soil)

Matrix Spike Dup (B2L0848-MSD1)	Source: Y212188-01			Prepared: 12/08/2022 Analyzed: 12/08/2022						
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130	14.0	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	15.1	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	12.6	20	
Ethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130	12.5	20	
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130	18.7	20	
Toluene	0.0983	0.00200	"	0.100	ND	98.3	70-130	11.5	20	
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130	14.3	20	
m,p-Xylene	0.210	0.00400	"	0.200	ND	105	70-130	12.1	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		114	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

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 B2L0844 - EPA 3050B

Blank (B2L0844-BLK1)

Prepared: 12/08/2022 Analyzed: 12/08/2022

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

LCS (B2L0844-BS1)

Prepared: 12/08/2022 Analyzed: 12/08/2022

Arsenic	0.0528	0.000100	mg/kg	0.0500		106	80-120			
Barium	5.43	0.0100	"	5.00		109	80-120			
Cadmium	0.0524	0.000100	"	0.0500		105	80-120			
Copper	0.543	0.0100	"	0.500		109	80-120			
Lead	0.0528	0.0100	"	0.0500		106	80-120			
Nickel	0.0548	0.0100	"	0.0500		110	80-120			
Selenium	0.0505	0.000100	"	0.0500		101	80-120			
Silver	0.0531	0.000100	"	0.0500		106	80-120			
Zinc	0.540	0.100	"	0.500		108	80-120			

Matrix Spike (B2L0844-MS1)

Source: Y212194-01

Prepared: 12/08/2022 Analyzed: 12/08/2022

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

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 B2L0844 - EPA 3050B

Matrix Spike (B2L0844-MS1)		Source: Y212194-01			Prepared: 12/08/2022 Analyzed: 12/08/2022					
Arsenic	10.4	0.0989	mg/kg	4.94	5.20	105	75-125			
Barium	730	9.89	"	494	179	112	75-125			
Cadmium	5.39	0.0989	"	4.94	0.203	105	75-125			
Copper	53.4	9.89	"	49.4	8.39	91.0	75-125			
Lead	15.1	9.89	"	4.94	9.33	117	75-125			
Nickel	18.6	9.89	"	4.94	13.2	110	75-125			
Selenium	5.11	0.0989	"	4.94	0.249	98.3	75-125			
Silver	5.31	0.0989	"	4.94	0.0461	106	75-125			
Zinc	95.5	98.9	"	49.4	44.8	102	75-125			U

Matrix Spike Dup (B2L0844-MSD1)		Source: Y212194-01			Prepared: 12/08/2022 Analyzed: 12/08/2022					
Arsenic	9.57	0.0857	mg/kg	4.28	5.20	102	75-125	8.21	20	
Barium	619	8.57	"	428	179	103	75-125	16.5	20	
Cadmium	4.65	0.0857	"	4.28	0.203	104	75-125	14.6	20	
Copper	44.7	8.57	"	42.8	8.39	84.9	75-125	17.6	20	
Lead	13.9	8.57	"	4.28	9.33	107	75-125	8.29	20	
Nickel	17.5	8.57	"	4.28	13.2	101	75-125	6.21	20	
Selenium	4.46	0.0857	"	4.28	0.249	98.3	75-125	13.6	20	
Silver	4.52	0.0857	"	4.28	0.0461	105	75-125	16.0	20	
Zinc	87.4	85.7	"	42.8	44.8	99.4	75-125	8.85	20	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2L0903 - Saturated Paste Metals										
Blank (B2L0903-BLK1)					Prepared: 12/09/2022 Analyzed: 12/12/2022					
SAR	0.00		SAR							U
Calcium PPM	ND	10.0	mg/L							U
Magnesium PPM	ND	10.0	"							U
Sodium PPM	ND	10.0	"							U
Duplicate (B2L0903-DUP1)		Source: Y212189-01			Prepared: 12/09/2022 Analyzed: 12/12/2022					
Calcium PPM	18.2	10.0	mg/L		26.0			35.3	50	
SAR	0.00		SAR		5.42			200	200	U
Magnesium PPM	9.68	10.0	mg/L		12.2			23.2	50	U
Sodium PPM	127	10.0	"		134			4.97	50	
Batch B2L0907 - DTPA Sorbitol Preparation										
Blank (B2L0907-BLK1)					Prepared: 12/09/2022 Analyzed: 12/12/2022					
Boron	ND	0.100	mg/L							U
Duplicate (B2L0907-DUP1)		Source: Y212188-01			Prepared: 12/09/2022 Analyzed: 12/13/2022					
Boron	25.6	1.00	mg/L		24.4			4.77	50	
Batch B2L0908 - DTPA Sorbitol Preparation										
Blank (B2L0908-BLK1)					Prepared: 12/09/2022 Analyzed: 12/12/2022					
Boron	ND	0.100	mg/L							U
Duplicate (B2L0908-DUP1)		Source: Y212134-01			Prepared: 12/09/2022 Analyzed: 12/12/2022					
Boron	0.397	0.0999	mg/L		0.340			15.2	50	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2L0911 - Saturated Paste pH/EC										
Blank (B2L0911-BLK1)					Prepared: 12/09/2022 Analyzed: 12/10/2022					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B2L0911-DUP1)					Source: Y212189-01 Prepared: 12/09/2022 Analyzed: 12/10/2022					
pH	8.79		pH Units		9.45		7.24		25	
Specific Conductance (EC)	0.761	0.00500	mmhos/cm		0.920		18.8		25	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L653294 - 3550B

MSD (L 81331-MSD-L653294)		Source: 81331			Prepared: 12/12/2022 Analyzed: 12/13/2022					
Dibenz(a,h)anthracene	0.153	0.00067	mg/Kg	0.165	<0.000614	92.7	30-130	12.8	30	
Pyrene	0.0886	0.00067	"	0.165	<0.000643	53.6	30-130	8.8	30	
Naphthalene	0.0749	0.00201	"	0.165	<0.00145	45.3	30-130	10.7	30	
Indeno(1,2,3-cd)pyrene	0.172	0.00067	"	0.165	<0.000627	104	30-130	8.8	30	
Fluorene	0.0868	0.00067	"	0.165	<0.000286	52.6	30-130	11.7	30	
Fluoranthene	0.0935	0.00067	"	0.165	<0.000394	56.6	30-130	7.7	30	
Chrysene	0.0979	0.00067	"	0.165	<0.000624	59.3	30-130	8.8	30	
Benzo(k)fluoranthene	0.0854	0.00067	"	0.165	<0.000437	51.7	30-130	16.7	30	
Benzo(b)fluoranthene	0.132	0.00067	"	0.165	<0.000585	80	30-130	9.5	30	
Benzo(a)pyrene	0.103	0.00067	"	0.165	<0.000468	62.4	30-130	5.6	30	
Benzo(a)anthracene	0.104	0.00067	"	0.165	<0.000493	63	30-130	4.6	30	
Acenaphthene	0.0835	0.00067	"	0.165	<0.000304	50.6	30-130	11.2	30	
2-Methylnaphthalene	0.0784	0.00201	"	0.165	<0.00194	47.5	30-130	10.3	30	
1-Methylnaphthalene	0.0749	0.00201	"	0.165	<0.00109	45.3	30-130	11	30	
Anthracene	0.0909	0.00067	"	0.165	<0.000334	55	30-130	8.1	30	
Surrogate: Nitrobenzene-d5	40.3		"	0.33	157	40.3	29-110			
Surrogate: 4-Terphenyl-d14	46.3		"	0.33	164	46.3	33-122			
Surrogate: 2-Fluorobiphenyl	41.2		"	0.33	155	41.2	33-115			

MS (L 81331-MS-L653294)		Source: 81331			Prepared: 12/12/2022 Analyzed: 12/13/2022					
Chrysene	0.107	0.00067	mg/Kg	0.166	<0.000624	64.4	30-130			
Benzo(k)fluoranthene	0.101	0.00067	"	0.166	<0.000437	60.8	30-130			
1-Methylnaphthalene	0.0837	0.00201	"	0.166	<0.00109	50.4	30-130			
Acenaphthene	0.0935	0.00067	"	0.166	<0.000304	56.3	30-130			
Anthracene	0.0986	0.00067	"	0.166	<0.000334	59.3	30-130			
Benzo(a)anthracene	0.109	0.00067	"	0.166	<0.000493	65.6	30-130			
Fluoranthene	0.101	0.00067	"	0.166	<0.000394	60.8	30-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L653294 - 3550B

MS (L 81331-MS-L653294)	Source: 81331			Prepared: 12/12/2022 Analyzed: 12/13/2022						
Benzo(b)fluoranthene	0.12	0.00067	mg/Kg	0.166	<0.000585	72.2	30-130			
2-Methylnaphthalene	0.087	0.00201	"	0.166	<0.00194	52.4	30-130			
Dibenz(a,h)anthracene	0.174	0.00067	"	0.166	<0.000614	105	30-130			
Fluorene	0.0976	0.00067	"	0.166	<0.000286	58.7	30-130			
Indeno(1,2,3-cd)pyrene	0.188	0.00067	"	0.166	<0.000627	113	30-130			
Naphthalene	0.0834	0.00201	"	0.166	<0.00145	50.2	30-130			
Pyrene	0.0968	0.00067	"	0.166	<0.000643	58.3	30-130			
Benzo(a)pyrene	0.109	0.00067	"	0.166	<0.000468	65.6	30-130			
Surrogate: 2-Fluorobiphenyl	42.7		"	0.332	155	42.7	33-115			
Surrogate: 4-Terphenyl-d14	50.3		"	0.332	164	50.3	33-122			
Surrogate: Nitrobenzene-d5	41.5		"	0.332	157	41.5	29-110			

LCS (LCS-L653294)	Prepared: 12/12/2022 Analyzed: 12/13/2022									
Benzo(b)fluoranthene	0.139	0.00067	mg/Kg	0.167		83.2	30-130			
1-Methylnaphthalene	0.089	0.00201	"	0.167		53.2	30-130			
Chrysene	0.117	0.00067	"	0.167		70	30-130			
2-Methylnaphthalene	0.0929	0.00201	"	0.167		55.6	30-130			
Acenaphthene	0.0988	0.00067	"	0.167		59.1	30-130			
Anthracene	0.106	0.00067	"	0.167		63.4	30-130			
Benzo(a)anthracene	0.115	0.00067	"	0.167		68.8	30-130			
Benzo(a)pyrene	0.121	0.00067	"	0.167		72.4	30-130			
Benzo(k)fluoranthene	0.115	0.00067	"	0.167		68.8	30-130			
Dibenz(a,h)anthracene	0.181	0.00067	"	0.167		108	30-130			
Fluoranthene	0.112	0.00067	"	0.167		67	30-130			
Fluorene	0.105	0.00067	"	0.167		62.8	30-130			
Indeno(1,2,3-cd)pyrene	0.209	0.00067	"	0.167		125	30-130			
Naphthalene	0.089	0.00201	"	0.167		53.2	30-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L653294 - 3550B

LCS (LCS-L653294)

Prepared: 12/12/2022 Analyzed: 12/13/2022

Pyrene	0.11	0.00067	mg/Kg	0.167		65.8	30-130			
Surrogate: 4-Terphenyl-d14	57.3		"	0.333		57.3	33-122			
Surrogate: Nitrobenzene-d5	49.8		"	0.333		49.8	29-110			
Surrogate: 2-Fluorobiphenyl	51.3		"	0.333		51.3	33-115			

LRB (LRB-L653294)

Prepared: 12/12/2022 Analyzed: 12/13/2022

Fluoranthene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Naphthalene	ND	0.00201	"				-			
Surrogate: 4-Terphenyl-d14	58.2		"	0.333		58.2	33-122			
Surrogate: 2-Fluorobiphenyl	48.9		"	0.333		48.9	33-115			
Surrogate: Nitrobenzene-d5	49.2		"	0.333		49.2	29-110			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

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
Batch L653733 -										
DUP (L 81411-DUP)		Source: 81411			Prepared: Analyzed: 12/14/2022					
Chromium, Hexavalent	ND	0.506	mg/Kg		<0.506		-	0	20	
MS (L 81411-MS)		Source: 81411			Prepared: Analyzed: 12/14/2022					
Chromium, Hexavalent	41.8	2.56	mg/Kg	41	< 0.244	102	75-125			
MSD (L 81411-MSD)		Source: 81411			Prepared: Analyzed: 12/14/2022					
Chromium, Hexavalent	545	50	mg/Kg	592	<24.4	92	75-125			
LCS (LCS)					Prepared: Analyzed: 12/14/2022					
Chromium, Hexavalent	7.51	0.5	mg/Kg	8		94	75-125			
LRB (LRB)					Prepared: Analyzed: 12/14/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller 23-24 Reclamation

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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February 14, 2024

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Miller 23-24 Reclamation Project Number - [none]

Attached are your analytical results for KMG - Miller 23-24 Reclamation received by Origins Laboratory, Inc. February 06, 2024. This project is associated with Origins project number Y402143-01.

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 - Miller 23-24 Reclamation

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
REL-B01R@2'	Y402143-01	Soil	February 6, 2024 11:00	02/06/2024 14:00
REL-B03R@2'	Y402143-02	Soil	February 6, 2024 11:02	02/06/2024 14:00
REL-BG05@6"	Y402143-03	Soil	February 6, 2024 11:04	02/06/2024 14:00
REL-BG06@6"	Y402143-04	Soil	February 6, 2024 11:06	02/06/2024 14:00
REL-BG07@6"	Y402143-05	Soil	February 6, 2024 11:08	02/06/2024 14:00
REL-BG08@6"	Y402143-06	Soil	February 6, 2024 11:10	02/06/2024 14:00

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24 Reclamation

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

Sample Receipt Checklist

Origins Work Order: 440214B Client: Tasman
 Client Project ID: Miller 23-24 Rec


Checklist Completed by: JAS Shipped Via: FEDEX
 Date/time completed: 2/10/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		/		SD
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for sub-contracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 2/10/24

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 - Miller 23-24 Reclamation

REL-B01R@2'
 2/6/2024 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y402143-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	ACC	02/07/2024	02/08/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	1.64	0.435	"	"	"	ACC	"	"

SAR by 20B Saturated Paste

SAR	6.11	0.0100	SAR	1	B4B0713	ACC	"	"
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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 - Miller 23-24 Reclamation

REL-B03R@2'
2/6/2024 11:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402143-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	ACC	02/07/2024	02/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	2.47	0.435	"	"	"	ACC	"	"	

SAR by 20B Saturated Paste

SAR	6.82	0.0100	SAR	1	B4B0713	ACC	"	"	
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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 - Miller 23-24 Reclamation

REL-BG05@6"
2/6/2024 11:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402143-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	ACC	02/07/2024	02/08/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	ND	0.435	"	"	"	ACC	"	"

SAR by 20B Saturated Paste

SAR	0.666	0.0100	SAR	1	B4B0713	ACC	"	"
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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 - Miller 23-24 Reclamation

REL-BG06@6"
2/6/2024 11:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402143-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.639	0.499	meq/L	10	[CALC]	ACC	02/07/2024	02/08/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	ND	0.435	"	"	"	ACC	"	"

SAR by 20B Saturated Paste

SAR	0.501	0.0100	SAR	1	B4B0713	ACC	"	"
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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 - Miller 23-24 Reclamation

REL-BG07@6"
2/6/2024 11:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402143-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	7.08	0.499	meq/L	10	[CALC]	ACC	02/07/2024	02/08/2024
Magnesium	2.30	0.823	"	"	"	ACC	"	"
Sodium	1.62	0.435	"	"	"	ACC	"	"

SAR by 20B Saturated Paste

SAR	0.749	0.0100	SAR	1	B4B0713	ACC	"	"
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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 - Miller 23-24 Reclamation

REL-BG08@6"
2/6/2024 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402143-06 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.96	0.499	meq/L	10	[CALC]	ACC	02/09/2024	02/12/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	ND	0.435	"	"	"	ACC	"	"

SAR by 20B Saturated Paste

SAR	0.173	0.0100	SAR	1	B4B0906	ACC	"	"
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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 - Miller 23-24 Reclamation

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 B4B0713 - Saturated Paste Metals

Blank (B4B0713-BLK1)

Prepared: 02/07/2024 Analyzed: 02/08/2024

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

Duplicate (B4B0713-DUP1)

Source: Y402141-02

Prepared: 02/07/2024 Analyzed: 02/08/2024

Calcium PPM	23.2	10.0	mg/L		20.9			10.3	50	
SAR	ND	0.0100	SAR		2.32				200	
Magnesium PPM	5.31	10.0	mg/L		4.79			10.3	50	
Sodium PPM	52.9	10.0	"		45.3			15.5	50	

Batch B4B0906 - Saturated Paste Metals

Blank (B4B0906-BLK1)

Prepared: 02/09/2024 Analyzed: 02/12/2024

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

Duplicate (B4B0906-DUP1)

Source: Y402199-01

Prepared: 02/09/2024 Analyzed: 02/12/2024

SAR	ND	0.0100	SAR		3.10				200	
Calcium PPM	28.1	10.0	mg/L		33.9			18.7	50	
Magnesium PPM	11.4	10.0	"		14.0			20.7	50	
Sodium PPM	87.1	10.0	"		85.0			2.49	50	

Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller 23-24 Reclamation

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.

March 22, 2024

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Miller 23-24

Project Number - [none]

Attached are your analytical results for KMG - Miller 23-24 received by Origins Laboratory, Inc. March 08, 2024. This project is associated with Origins project number Y403262-01.

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 - Miller 23-24

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Rec-BG09@1'	Y403262-01	Soil	March 8, 2024 13:00	03/08/2024 16:34
Rec-BG09@2'	Y403262-02	Soil	March 8, 2024 13:02	03/08/2024 16:34
Rec-BG10@1'	Y403262-03	Soil	March 8, 2024 13:04	03/08/2024 16:34
Rec-BG10@2'	Y403262-04	Soil	March 8, 2024 13:06	03/08/2024 16:34
Rec-BG11@1'	Y403262-05	Soil	March 8, 2024 13:08	03/08/2024 16:34
Rec-BG11@2'	Y403262-06	Soil	March 8, 2024 13:10	03/08/2024 16:34
Rec-BG12@1'	Y403262-07	Soil	March 8, 2024 13:12	03/08/2024 16:34
Rec-BG12@2'	Y403262-08	Soil	March 8, 2024 13:14	03/08/2024 16:34
Rec-BG13@1'	Y403262-09	Soil	March 8, 2024 13:16	03/08/2024 16:34
Rec-BG13@2'	Y403262-10	Soil	March 8, 2024 13:18	03/08/2024 16:34

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24

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



4403202

www.originslaboratory.com

page 1 of 1

Client: OVI/ISPH
 Address: 6855 W 119th Ave
 Broomfield, CO 80020

Project Manager: Andy Sagen
 Project Name: Miller 23-24
 Project Number:

Telephone Number: PM Contact Number (720) 939-3631
 Email Address: OVI/ISPH@originslab.com

Samples Collected By: Sydney Dasher
 Method of Delivery (Circle One): Hand Delivered / Airfreight / Train / Local Box Drop / Service Center/Drop / Truck / UPS

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis		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"/>
				HCl	HNO ₃	Other	Groundwater	Soil	Other	Full Table 915 Metals #15-1 Metals	
REC-BG09011	3-08-24	1300	2	X			X		X	XXX	10
REC-BG09022		1302									10
REC-BG10011		1304									10
REC-BG10022		1306									10
REC-BG11011		1308									10
REC-BG11022		1310									10
REC-BG12011		1312									10
REC-BG12022		1314									10
REC-BG13011		1316									10
REC-BG13022		1318									10
Relinquished By: S. Dasher	Date: 3-08-24	Time: 1034									
Relinquished By:	Date:	Time:									
Received By: [Signature]	Date: 3/12/24	Time: 1034									
Received By:	Date:	Time:									

Date Results Needed

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 - Miller 23-24

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4402202 Client: Tasman
 Client Project ID: Miller 23-24
 Checklist Completed by: JST Shipped Via: TD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 3/8/12 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 6 °C / _____ °C / _____ °C (Describe)
 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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JST

3/8/12
 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 - Miller 23-24

Rec-BG09@1'
3/8/2024 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403262-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	ACC	03/09/2024	03/11/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	1.30	0.435	"	"	"	ACC	"	"	

pH in Soil by 9045D

pH	7.81		pH Units	1	B4C0919	EAL	03/09/2024	03/11/2024	
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SAR by 20B Saturated Paste

SAR	2.30	0.0100	SAR	1	B4C0909	ACC	03/09/2024	03/11/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.154	0.00500	mmhos/cm	1	B4C0919	EAL	03/09/2024	03/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.54	0.259	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024	
Barium	68.7	8.92	"	"	"	JAH	"	"	
Cadmium	ND	0.0892	"	"	"	JAH	"	"	
Copper	ND	8.92	"	"	"	JAH	"	"	
Lead	3.90	0.892	"	"	"	JAH	"	"	
Nickel	3.91	0.892	"	"	"	JAH	"	"	

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 - Miller 23-24

Rec-BG09@1'

3/8/2024 1:00:00PM

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

Origins Laboratory, Inc.
Y403262-01 (Soil)

Table 915 metals by EPA 6020B

Selenium	ND	0.232	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024	
Zinc	ND	33.0	"	"	"	JAH	"	"	

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 - Miller 23-24

Rec-BG09@2'
3/8/2024 1:02:00PM

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

Origins Laboratory, Inc.
Y403262-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	ACC	03/09/2024	03/11/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	2.12	0.435	"	"	"	ACC	"	"	

pH in Soil by 9045D

pH	8.33		pH Units	1	B4C0919	EAL	03/09/2024	03/11/2024	
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SAR by 20B Saturated Paste

SAR	5.28	0.0100	SAR	1	B4C0909	ACC	03/09/2024	03/11/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.261	0.00500	mmhos/cm	1	B4C0919	EAL	03/09/2024	03/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.50	0.280	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024	
Barium	77.1	9.66	"	"	"	JAH	"	"	
Cadmium	ND	0.0966	"	"	"	JAH	"	"	
Copper	ND	9.66	"	"	"	JAH	"	"	
Lead	3.89	0.966	"	"	"	JAH	"	"	
Nickel	4.45	0.966	"	"	"	JAH	"	"	

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 - Miller 23-24

Rec-BG09@2'

3/8/2024 1:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403262-02 (Soil)

Table 915 metals by EPA 6020B

Selenium	ND	0.251	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024	
Zinc	ND	35.7	"	"	"	JAH	"	"	

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 - Miller 23-24

Rec-BG10@1'
 3/8/2024 1:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y403262-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	14.5	0.499	meq/L	10	[CALC]	ACC	03/09/2024	03/11/2024	
Magnesium	6.11	0.823	"	"	"	ACC	"	"	
Sodium	7.22	0.435	"	"	"	ACC	"	"	

pH in Soil by 9045D

pH	8.06		pH Units	1	B4C0919	EAL	03/09/2024	03/11/2024	
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SAR by 20B Saturated Paste

SAR	2.25	0.0100	SAR	1	B4C0909	ACC	03/09/2024	03/11/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.48	0.00500	mmhos/cm	1	B4C0919	EAL	03/09/2024	03/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.19	0.263	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024	
Barium	55.6	9.07	"	"	"	JAH	"	"	
Cadmium	ND	0.0907	"	"	"	JAH	"	"	
Copper	ND	9.07	"	"	"	JAH	"	"	
Lead	3.98	0.907	"	"	"	JAH	"	"	
Nickel	3.04	0.907	"	"	"	JAH	"	"	
Selenium	ND	0.236	"	"	"	JAH	"	"	

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 - Miller 23-24

Rec-BG10@1'

3/8/2024 1:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403262-03 (Soil)

Table 915 metals by EPA 6020B

Zinc	ND	33.6	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024	
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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 - Miller 23-24

Rec-BG10@2'
3/8/2024 1:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403262-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.701	0.499	meq/L	10	[CALC]	ACC	03/09/2024	03/11/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	4.67	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.12		pH Units	1	B4C0919	EAL	03/09/2024	03/11/2024
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SAR by 20B Saturated Paste

SAR	5.62	0.0100	SAR	1	B4C0909	ACC	03/09/2024	03/11/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.32	0.00500	mmhos/cm	1	B4C0919	EAL	03/09/2024	03/11/2024
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Table 915 metals by EPA 6020B

Arsenic	1.40	0.258	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024
Barium	50.8	8.91	"	"	"	JAH	"	"
Cadmium	ND	0.0891	"	"	"	JAH	"	"
Copper	ND	8.91	"	"	"	JAH	"	"
Lead	3.77	0.891	"	"	"	JAH	"	"
Nickel	4.65	0.891	"	"	"	JAH	"	"
Selenium	ND	0.232	"	"	"	JAH	"	"

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 - Miller 23-24

Rec-BG10@2'

3/8/2024 1:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403262-04 (Soil)

Table 915 metals by EPA 6020B

Zinc	ND	33.0	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024	
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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 - Miller 23-24

Rec-BG11@1'
 3/8/2024 1:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y403262-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	20.9	0.499	meq/L	10	[CALC]	ACC	03/09/2024	03/11/2024
Magnesium	14.0	0.823	"	"	"	ACC	"	"
Sodium	26.8	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.15		pH Units	1	B4C0919	EAL	03/09/2024	03/11/2024
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SAR by 20B Saturated Paste

SAR	6.41	0.0100	SAR	1	B4C0909	ACC	03/09/2024	03/11/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.30	0.00500	mmhos/cm	1	B4C0919	EAL	03/09/2024	03/11/2024
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Table 915 metals by EPA 6020B

Arsenic	4.23	0.246	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024
Barium	137	8.49	"	"	"	JAH	"	"
Cadmium	ND	0.0849	"	"	"	JAH	"	"
Copper	ND	8.49	"	"	"	JAH	"	"
Lead	7.36	0.849	"	"	"	JAH	"	"
Nickel	10.2	0.849	"	"	"	JAH	"	"
Selenium	0.228	0.221	"	"	"	JAH	"	"

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 - Miller 23-24

Rec-BG11@1'

3/8/2024 1:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403262-05 (Soil)

Table 915 metals by EPA 6020B

Zinc	43.2	31.4	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024	
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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 - Miller 23-24

Rec-BG11@2'
 3/8/2024 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y403262-06 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	14.7	0.499	meq/L	10	[CALC]	ACC	03/09/2024	03/11/2024	
Magnesium	6.80	0.823	"	"	"	ACC	"	"	
Sodium	23.9	0.435	"	"	"	ACC	"	"	

pH in Soil by 9045D

pH	8.31		pH Units	1	B4C0919	EAL	03/09/2024	03/11/2024	
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SAR by 20B Saturated Paste

SAR	7.30	0.0100	SAR	1	B4C0909	ACC	03/09/2024	03/11/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.67	0.00500	mmhos/cm	1	B4C0919	EAL	03/09/2024	03/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.58	0.272	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024	
Barium	3130	9.39	"	"	"	JAH	"	"	
Cadmium	0.482	0.0939	"	"	"	JAH	"	"	
Copper	ND	9.39	"	"	"	JAH	"	"	
Lead	7.25	0.939	"	"	"	JAH	"	"	
Nickel	10.4	0.939	"	"	"	JAH	"	"	
Selenium	0.708	0.244	"	"	"	JAH	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller 23-24

Rec-BG11@2'

3/8/2024 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403262-06 (Soil)

Table 915 metals by EPA 6020B

Zinc	62.9	34.7	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024	
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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 - Miller 23-24

Rec-BG12@1'
3/8/2024 1:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403262-07 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	14.6	0.499	meq/L	10	[CALC]	ACC	03/09/2024	03/11/2024	
Magnesium	12.0	0.823	"	"	"	ACC	"	"	
Sodium	23.9	0.435	"	"	"	ACC	"	"	

pH in Soil by 9045D

pH	8.10		pH Units	1	B4C0919	EAL	03/09/2024	03/11/2024	
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SAR by 20B Saturated Paste

SAR	6.53	0.0100	SAR	1	B4C0909	ACC	03/09/2024	03/11/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.25	0.00500	mmhos/cm	1	B4C0919	EAL	03/09/2024	03/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.21	0.255	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024	
Barium	2230	8.80	"	"	"	JAH	"	"	
Cadmium	0.155	0.0880	"	"	"	JAH	"	"	
Copper	ND	8.80	"	"	"	JAH	"	"	
Lead	7.21	0.880	"	"	"	JAH	"	"	
Nickel	8.09	0.880	"	"	"	JAH	"	"	
Selenium	0.336	0.229	"	"	"	JAH	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller 23-24

Rec-BG12@1'

3/8/2024 1:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403262-07 (Soil)

Table 915 metals by EPA 6020B

Zinc	37.3	32.6	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024	
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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 - Miller 23-24

Rec-BG12@2'
3/8/2024 1:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403262-08 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	8.20	0.499	meq/L	10	[CALC]	ACC	03/09/2024	03/11/2024
Magnesium	4.42	0.823	"	"	"	ACC	"	"
Sodium	14.6	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.28		pH Units	1	B4C0919	EAL	03/09/2024	03/11/2024
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SAR by 20B Saturated Paste

SAR	5.81	0.0100	SAR	1	B4C0909	ACC	03/09/2024	03/11/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.50	0.00500	mmhos/cm	1	B4C0919	EAL	03/09/2024	03/11/2024
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Table 915 metals by EPA 6020B

Arsenic	3.42	0.285	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024
Barium	772	9.82	"	"	"	JAH	"	"
Cadmium	0.167	0.0982	"	"	"	JAH	"	"
Copper	10.2	9.82	"	"	"	JAH	"	"
Lead	13.3	0.982	"	"	"	JAH	"	"
Nickel	11.4	0.982	"	"	"	JAH	"	"
Selenium	0.275	0.255	"	"	"	JAH	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller 23-24

Rec-BG12@2'

3/8/2024 1:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403262-08 (Soil)

Table 915 metals by EPA 6020B

Zinc	69.6	36.3	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024	
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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 - Miller 23-24

Rec-BG13@1'
3/8/2024 1:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403262-09 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	5.04	0.499	meq/L	10	[CALC]	ACC	03/09/2024	03/11/2024
Magnesium	3.13	0.823	"	"	"	ACC	"	"
Sodium	8.81	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.38		pH Units	1	B4C0919	EAL	03/09/2024	03/11/2024
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SAR by 20B Saturated Paste

SAR	4.36	0.0100	SAR	1	B4C0909	ACC	03/09/2024	03/11/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.59	0.00500	mmhos/cm	1	B4C0919	EAL	03/09/2024	03/11/2024
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Table 915 metals by EPA 6020B

Arsenic	2.73	0.260	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024
Barium	1290	8.97	"	"	"	JAH	"	"
Cadmium	0.0906	0.0897	"	"	"	JAH	"	"
Copper	ND	8.97	"	"	"	JAH	"	"
Lead	6.81	0.897	"	"	"	JAH	"	"
Nickel	9.24	0.897	"	"	"	JAH	"	"
Selenium	ND	0.233	"	"	"	JAH	"	"

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 - Miller 23-24

Rec-BG13@1'

3/8/2024 1:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403262-09 (Soil)

Table 915 metals by EPA 6020B

Zinc	ND	33.2	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024	
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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 - Miller 23-24

Rec-BG13@2'
3/8/2024 1:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403262-10 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	16.3	0.499	meq/L	10	[CALC]	ACC	03/09/2024	03/11/2024	
Magnesium	5.84	0.823	"	"	"	ACC	"	"	
Sodium	7.90	0.435	"	"	"	ACC	"	"	

pH in Soil by 9045D

pH	8.27		pH Units	1	B4C0919	EAL	03/09/2024	03/11/2024	
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SAR by 20B Saturated Paste

SAR	2.38	0.0100	SAR	1	B4C0909	ACC	03/09/2024	03/11/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.23	0.00500	mmhos/cm	1	B4C0919	EAL	03/09/2024	03/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.23	0.282	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024	
Barium	4380	9.74	"	"	"	JAH	"	"	
Cadmium	0.215	0.0974	"	"	"	JAH	"	"	
Copper	ND	9.74	"	"	"	JAH	"	"	
Lead	5.69	0.974	"	"	"	JAH	"	"	
Nickel	6.87	0.974	"	"	"	JAH	"	"	
Selenium	0.348	0.253	"	"	"	JAH	"	"	

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 - Miller 23-24

Rec-BG13@2'

3/8/2024 1:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403262-10 (Soil)

Table 915 metals by EPA 6020B

Zinc	ND	36.0	mg/kg	10	B4C1128	JAH	03/11/2024	03/21/2024	
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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 - Miller 23-24

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 B4C1128 - EPA 3050B

Blank (B4C1128-BLK1)

Prepared: 03/11/2024 Analyzed: 03/21/2024

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

LCS (B4C1128-BS1)

Prepared: 03/11/2024 Analyzed: 03/21/2024

Arsenic	5.50	0.290	mg/kg	5.00		110	80-120			
Barium	539	10.0	"	500		108	80-120			
Cadmium	5.59	0.100	"	5.00		112	80-120			
Copper	54.4	10.0	"	50.0		109	80-120			
Lead	5.37	1.00	"	5.00		107	80-120			
Nickel	5.68	1.00	"	5.00		114	80-120			
Selenium	10.0	0.260	"	9.50		105	80-120			
Zinc	49.5	37.0	"	50.0		99.1	80-120			

Matrix Spike (B4C1128-MS1)

Source: Y403261-08

Prepared: 03/11/2024 Analyzed: 03/21/2024

Arsenic	10.9	0.279	mg/kg	4.81	6.06	101	75-125			
Barium	773	9.62	"	481	264	106	75-125			
Cadmium	5.70	0.0962	"	4.81	0.344	111	75-125			
Copper	74.3	9.62	"	48.1	15.5	122	75-125			
Lead	20.4	0.962	"	4.81	15.2	107	75-125			
Nickel	25.5	0.962	"	4.81	20.3	107	75-125			
Selenium	9.88	0.250	"	9.13	0.469	103	75-125			

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 - Miller 23-24

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C1128 - EPA 3050B										
Matrix Spike (B4C1128-MS1)		Source: Y403261-08			Prepared: 03/11/2024 Analyzed: 03/21/2024					
Zinc	135	35.6	mg/kg	48.1	75.0	124	75-125			
Matrix Spike Dup (B4C1128-MSD1)		Source: Y403261-08			Prepared: 03/11/2024 Analyzed: 03/21/2024					
Arsenic	10.6	0.254	mg/kg	4.38	6.06	104	75-125	2.81	20	
Barium	751	8.76	"	438	264	111	75-125	2.80	20	
Cadmium	5.37	0.0876	"	4.38	0.344	115	75-125	5.96	20	
Copper	69.6	8.76	"	43.8	15.5	123	75-125	6.65	20	
Lead	20.0	0.876	"	4.38	15.2	111	75-125	1.52	20	
Nickel	24.9	0.876	"	4.38	20.3	104	75-125	2.32	20	
Selenium	9.19	0.228	"	8.32	0.469	105	75-125	7.23	20	
Zinc	130	32.4	"	43.8	75.0	125	75-125	3.48	20	

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Miller 23-24

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 B4C0909 - Saturated Paste Metals

Blank (B4C0909-BLK1)

Prepared: 03/09/2024 Analyzed: 03/11/2024

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

Duplicate (B4C0909-DUP1)

Source: Y403256-01

Prepared: 03/09/2024 Analyzed: 03/11/2024

Calcium PPM	16.3	10.0	mg/L		15.0			8.19	50	
SAR	ND	0.0100	SAR		0.0824				200	
Magnesium PPM	2.34	10.0	mg/L		2.35			0.426	50	
Sodium PPM	1.34	10.0	"		1.30			3.03	50	

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 Project Number: [none]
 Project: KMG - Miller 23-24

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C0919 - Saturated Paste pH/EC										
Blank (B4C0919-BLK1)					Prepared: 03/09/2024 Analyzed: 03/11/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4C0919-DUP1)					Source: Y403256-01 Prepared: 03/09/2024 Analyzed: 03/11/2024					
Specific Conductance (EC)	0.133	0.00500	mmhos/cm		0.122			8.65	25	
pH	8.31		pH Units		8.23			0.967	25	

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Andy Sagen
Project Number: [none]
Project: KMG - Miller 23-24

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.

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