

June 27, 2024

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Wheeler 1-21A

Project Number - [none]

Attached are your analytical results for KMG - Wheeler 1-21A received by Origins Laboratory, Inc. June 12, 2024. This project is associated with Origins project number Y406361-01.

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 - Wheeler 1-21A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	Y406361-01	Soil	June 12, 2024 14:30	06/12/2024 16:46
FL-B01@4'	Y406361-02	Soil	June 12, 2024 14:40	06/12/2024 16:46
BG01@3'	Y406361-03	Soil	June 12, 2024 14:50	06/12/2024 16:46
BG01@6'	Y406361-04	Soil	June 12, 2024 14:52	06/12/2024 16:46
BG02@3'	Y406361-05	Soil	June 12, 2024 14:54	06/12/2024 16:46
BG02@6'	Y406361-06	Soil	June 12, 2024 14:56	06/12/2024 16:46
BG03@3'	Y406361-07	Soil	June 12, 2024 14:58	06/12/2024 16:46
BG03@6'	Y406361-08	Soil	June 12, 2024 15:00	06/12/2024 16:46
BG04@3'	Y406361-09	Soil	June 12, 2024 15:02	06/12/2024 16:46
BG04@6'	Y406361-10	Soil	June 12, 2024 15:04	06/12/2024 16:46
BG05@3'	Y406361-11	Soil	June 12, 2024 15:06	06/12/2024 16:46
BG05@6'	Y406361-12	Soil	June 12, 2024 15:08	06/12/2024 16:46
BG06@3'	Y406361-13	Soil	June 12, 2024 15:10	06/12/2024 16:46
BG06@6'	Y406361-14	Soil	June 12, 2024 15:12	06/12/2024 16:46

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Wheeler 1-21A

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

ORIGINS

LABORATORY, INC
 Client: TASMAN/OXY

44002201

Page 1 of 2

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

Project Manager: Andy Sagen

Key:

Project Name: Wheeler 1-21A

W = Water

Project Number: 44002201

GW=Groundwater

Telephone Number: PM Contact # (720) 939-3631

Collected By: AS

SW=Surface Water

Email Address: OXY/Tasman distribution list

Invoice/Billing Info: DE KM

WW=Waste Water

S=Soil | SO=Soil | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

L=Liquid

#	Sample ID	Date	Time	# of Containers	Matrix	Preservative	Analysis							Comments			
							GBTEXN+	TMBS	DRO/ORO	PAH	pH/EC/SAR	Boron	915 Metals		Full 915 Suite		
1	WHLW061	6/22/24	1450	3	S												
2	FL-60104		1440	3													
3	B601031		1450	2						X	X	X					
4	B601061		1452	1						X	X	X					
5	B602031		1454	1						X	X	X					
6	B602061		1456	1						X	X	X					
7	B603031		1458	1						X	X	X					
8	B603061		1500	1						X	X	X					
9	B604031		1502	1						X	X	X					
10	B604061		1504	2						X	X	X					

Relinquished By: [Signature] Date: 6/22/24 Time: 1450

Received By: [Signature] Date: 6/22/24 Time: 1450

Temp Received: 9 Received On Ice? Yes No

Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr

Standard

Origins Laboratory, Inc.
Bynon

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 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

ORIGINS

LABORATORY INC
 Client: TASMAN/OXY

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

Telephone Number: PM Contact # (720) 939-3631

Email Address: OXY/Tasman distribution list

Project Manager: Andy Sagen

Project Name: Wheeler 1-21A

Project Number:

Collected By: DE KM

Invoice/Billing Info:

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas || UNP=Unpres | HCL= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date	Time	# of Containers	Matrix	Preservative	Analysis						Comments
							GBTEXN+	TMBS	DRO/ORO	PAH	pH/EC/SAR	Boron	
1	P605091	6/22/24	15:06	2	S					X	X	X	
2	P605091		15:08	1	S					X	X	X	
3	P605091		15:10	1	S					X	X	X	
4	P605091		15:12	1	S					X	X	X	
5													
6													
7													
8													
9													
10													

Reinquisitioned By: [Signature] Date: 6/22/24 Time: 10:44
 Received By: [Signature] Date: 6/22/24 Time: 10:44
 Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr
 Standard
 Temp Received: 9 Received On Ice? Yes No

1725 Elk Pl. Poudre Denver, Co. 80211 | # 303.433.1322 | originslab.com

Origins Laboratory, Inc.
 [Signature]

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4401321

Client: Tasman

Client Project ID: Wheeler-21A

Checklist Completed by: JW/

Shipped Via: TUP

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

Date/time completed: 6/12/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 9 °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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +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 6/12/12

Origins Laboratory, Inc.

[Signature]

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

WH-B01@6'
6/12/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B4F1321	06/13/2024	06/14/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4F1251	06/12/2024	06/13/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: *o*-Terphenyl 76.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4F1252	06/12/2024	06/13/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "

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Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

WH-B01@6'
6/12/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B4F12 52	06/12/2024	06/13/2024	
Surrogate: 4-Bromofluorobenzene	107 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.622		0.499	meq/L	10	[CALC]	06/13/2024	06/14/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.696		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4F1244	06/12/2024	06/14/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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 Project Number: [none]
 Project: KMG - Wheeler 1-21A

WH-B01@6'
6/12/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4F1244	06/12/2024	06/14/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	103 %		60-130			"	"	"	
Surrogate: Anthracene-d10	98.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	100 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.21			pH Units	1	B4F1316	06/13/2024	06/14/2024	
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SAR by 20B Saturated Paste

SAR	1.08		0.0100	SAR	1	B4F1312	06/13/2024	06/14/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.240		0.00500	mmhos/cm	1	B4F1316	06/13/2024	06/14/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

WH-B01@6'
6/12/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.33		0.265	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Barium	94.6		9.13	"	"	"	"	"	
Cadmium	ND		0.0913	"	"	"	"	"	
Copper	ND		9.13	"	"	"	"	"	
Lead	7.24		0.913	"	"	"	"	"	
Nickel	6.48		0.913	"	"	"	"	"	
Selenium	ND		0.237	"	"	"	"	"	
Silver	ND		0.0913	"	"	"	"	"	
Zinc	ND		33.8	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.440	0.155	0.389	mg/kg dry	1	2631202	06/25/2024	06/25/2024	
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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 - Wheeler 1-21A

FL-B01@4'

6/12/2024 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0998	mg/L	1	B4F1321	06/13/2024	06/14/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4F1251	06/12/2024	06/13/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	75.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4F1252	06/12/2024	06/13/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

FL-B01@4'
 6/12/2024 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y406361-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B4F12 52	06/12/2024	06/13/2024	
Surrogate: 4-Bromofluorobenzene	107 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.799		0.499	meq/L	10	[CALC]	06/13/2024	06/14/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4F1244	06/12/2024	06/14/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

FL-B01@4'

6/12/2024 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4F1244	06/12/2024	06/14/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	106 %		60-130			"	"	"	
Surrogate: Anthracene-d10	98.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.5 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.23			pH Units	1	B4F1316	06/13/2024	06/14/2024	
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SAR by 20B Saturated Paste

SAR	0.310		0.0100	SAR	1	B4F1312	06/13/2024	06/14/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.205		0.00500	mmhos/cm	1	B4F1316	06/13/2024	06/14/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

FL-B01@4'

6/12/2024 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y406361-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.32		0.272	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Barium	65.3		9.37	"	"	"	"	"	
Cadmium	0.122		0.0937	"	"	"	"	"	
Copper	ND		9.37	"	"	"	"	"	
Lead	13.5		0.937	"	"	"	"	"	
Nickel	4.78		0.937	"	"	"	"	"	
Selenium	ND		0.244	"	"	"	"	"	
Silver	ND		0.0937	"	"	"	"	"	
Zinc	ND		34.7	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.154	0.132	0.329	mg/kg dry	1	2631202	06/25/2024	06/25/2024	J
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

BG01@3'
6/12/2024 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B4F1321	06/13/2024	06/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	06/13/2024	06/14/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.77			pH Units	1	B4F1316	06/13/2024	06/14/2024	
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SAR by 20B Saturated Paste

SAR	0.454		0.0100	SAR	1	B4F1312	06/13/2024	06/14/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0533		0.00500	mmhos/cm	1	B4F1316	06/13/2024	06/14/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.40		0.255	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Barium	49.2		8.78	"	"	"	"	"	
Cadmium	ND		0.0878	"	"	"	"	"	

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 - Wheeler 1-21A

BG01@3'
6/12/2024 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-03 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.78	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Lead	3.83		0.878	"	"	"	"	"	
Nickel	3.82		0.878	"	"	"	"	"	
Selenium	ND		0.228	"	"	"	"	"	
Silver	ND		0.0878	"	"	"	"	"	
Zinc	ND		32.5	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.215	0.149	0.372	mg/kg dry	1	2631202	06/25/2024	06/25/2024	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

BG01@6'
6/12/2024 2:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B4F1321	06/13/2024	06/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	06/13/2024	06/14/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.62			pH Units	1	B4F1316	06/13/2024	06/14/2024	
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SAR by 20B Saturated Paste

SAR	0.541		0.0100	SAR	1	B4F1312	06/13/2024	06/14/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0601		0.00500	mmhos/cm	1	B4F1316	06/13/2024	06/14/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.11		0.281	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Barium	76.8		9.69	"	"	"	"	"	
Cadmium	ND		0.0969	"	"	"	"	"	

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 - Wheeler 1-21A

BG01@6'
6/12/2024 2:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-04 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.69	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Lead	5.68		0.969	"	"	"	"	"	
Nickel	6.82		0.969	"	"	"	"	"	
Selenium	ND		0.252	"	"	"	"	"	
Silver	ND		0.0969	"	"	"	"	"	
Zinc	ND		35.8	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.166	0.142	0.356	mg/kg dry	1	2631202	06/25/2024	06/25/2024	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

BG02@3'
6/12/2024 2:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0987	mg/L	1	B4F1321	06/13/2024	06/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	06/13/2024	06/14/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.47			pH Units	1	B4F1316	06/13/2024	06/14/2024	
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SAR by 20B Saturated Paste

SAR	0.426		0.0100	SAR	1	B4F1312	06/13/2024	06/14/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0685		0.00500	mmhos/cm	1	B4F1316	06/13/2024	06/14/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.95		0.278	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Barium	64.5		9.59	"	"	"	"	"	
Cadmium	ND		0.0959	"	"	"	"	"	

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 - Wheeler 1-21A

BG02@3'
6/12/2024 2:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-05 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.59	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Lead	5.23		0.959	"	"	"	"	"	
Nickel	4.97		0.959	"	"	"	"	"	
Selenium	ND		0.249	"	"	"	"	"	
Silver	ND		0.0959	"	"	"	"	"	
Zinc	ND		35.5	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.266	0.155	0.386	mg/kg dry	1	2631202	06/25/2024	06/25/2024	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

BG02@6'
6/12/2024 2:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B4F1321	06/13/2024	06/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	06/13/2024	06/14/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.63			pH Units	1	B4F1316	06/13/2024	06/14/2024	
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SAR by 20B Saturated Paste

SAR	1.31		0.0100	SAR	1	B4F1312	06/13/2024	06/14/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0770		0.00500	mmhos/cm	1	B4F1316	06/13/2024	06/14/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.22		0.252	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Barium	77.0		8.67	"	"	"	"	"	
Cadmium	ND		0.0867	"	"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

BG02@6'
6/12/2024 2:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-06 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.67	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Lead	6.43		0.867	"	"	"	"	"	
Nickel	6.21		0.867	"	"	"	"	"	
Selenium	ND		0.226	"	"	"	"	"	
Silver	ND		0.0867	"	"	"	"	"	
Zinc	ND		32.1	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.231	0.134	0.335	mg/kg dry	1	2631202	06/25/2024	06/25/2024	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

BG03@3'
6/12/2024 2:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0992	mg/L	1	B4F1321	06/13/2024	06/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.829		0.499	meq/L	10	[CALC]	06/13/2024	06/14/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.21			pH Units	1	B4F1316	06/13/2024	06/14/2024	
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SAR by 20B Saturated Paste

SAR	0.0909		0.0100	SAR	1	B4F1312	06/13/2024	06/14/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.169		0.00500	mmhos/cm	1	B4F1316	06/13/2024	06/14/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.896		0.260	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Barium	29.7		8.97	"	"	"	"	"	
Cadmium	ND		0.0897	"	"	"	"	"	

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 - Wheeler 1-21A

BG03@3'
6/12/2024 2:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-07 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.97	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Lead	4.23		0.897	"	"	"	"	"	
Nickel	2.21		0.897	"	"	"	"	"	
Selenium	ND		0.233	"	"	"	"	"	
Silver	ND		0.0897	"	"	"	"	"	
Zinc	48.1		33.2	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.253	0.175	0.437	mg/kg dry	1	2631202	06/25/2024	06/25/2024	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

BG03@6'
6/12/2024 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B4F1321	06/13/2024	06/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.667		0.499	meq/L	10	[CALC]	06/13/2024	06/14/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.02			pH Units	1	B4F1316	06/13/2024	06/14/2024	
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SAR by 20B Saturated Paste

SAR	0.298		0.0100	SAR	1	B4F1312	06/13/2024	06/14/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.153		0.00500	mmhos/cm	1	B4F1316	06/13/2024	06/14/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.11		0.261	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Barium	66.5		9.02	"	"	"	"	"	
Cadmium	ND		0.0902	"	"	"	"	"	

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 - Wheeler 1-21A

BG03@6'
6/12/2024 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-08 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.02	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Lead	5.49		0.902	"	"	"	"	"	
Nickel	5.32		0.902	"	"	"	"	"	
Selenium	ND		0.234	"	"	"	"	"	
Silver	ND		0.0902	"	"	"	"	"	
Zinc	ND		33.4	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.157	0.109	0.272	mg/kg dry	1	2631202	06/25/2024	06/25/2024	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

BG04@3'
6/12/2024 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B4F1321	06/13/2024	06/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	06/13/2024	06/14/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.85			pH Units	1	B4F1316	06/13/2024	06/14/2024	
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SAR by 20B Saturated Paste

SAR	1.05		0.0100	SAR	1	B4F1312	06/13/2024	06/14/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0690		0.00500	mmhos/cm	1	B4F1316	06/13/2024	06/14/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.43		0.244	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Barium	46.8		8.41	"	"	"	"	"	
Cadmium	ND		0.0841	"	"	"	"	"	

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 - Wheeler 1-21A

BG04@3'
6/12/2024 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-09 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.41	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Lead	4.16		0.841	"	"	"	"	"	
Nickel	4.35		0.841	"	"	"	"	"	
Selenium	ND		0.219	"	"	"	"	"	
Silver	ND		0.0841	"	"	"	"	"	
Zinc	ND		31.1	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.168	0.144	0.360	mg/kg dry	1	2631202	06/25/2024	06/25/2024	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

BG04@6'
6/12/2024 3:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B4F1321	06/13/2024	06/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	06/13/2024	06/14/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.755		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.09			pH Units	1	B4F1316	06/13/2024	06/14/2024	
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SAR by 20B Saturated Paste

SAR	2.59		0.0100	SAR	1	B4F1312	06/13/2024	06/14/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.109		0.00500	mmhos/cm	1	B4F1316	06/13/2024	06/14/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.22		0.262	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Barium	67.4		9.05	"	"	"	"	"	
Cadmium	ND		0.0905	"	"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

BG04@6'
6/12/2024 3:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-10 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.05	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Lead	5.71		0.905	"	"	"	"	"	
Nickel	6.54		0.905	"	"	"	"	"	
Selenium	ND		0.235	"	"	"	"	"	
Silver	ND		0.0905	"	"	"	"	"	
Zinc	ND		33.5	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.314	0.138	0.345	mg/kg dry	1	2631202	06/25/2024	06/25/2024	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

BG05@3'
6/12/2024 3:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-11 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0992	mg/L	1	B4F1321	06/13/2024	06/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	06/13/2024	06/14/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.62			pH Units	1	B4F1316	06/13/2024	06/14/2024	
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SAR by 20B Saturated Paste

SAR	0.198		0.0100	SAR	1	B4F1312	06/13/2024	06/14/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0379		0.00500	mmhos/cm	1	B4F1316	06/13/2024	06/14/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.48		0.261	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Barium	65.5		9.01	"	"	"	"	"	
Cadmium	0.0946		0.0901	"	"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

BG05@3'
6/12/2024 3:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-11 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.01	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Lead	6.20		0.901	"	"	"	"	"	
Nickel	6.10		0.901	"	"	"	"	"	
Selenium	0.493		0.234	"	"	"	"	"	
Silver	ND		0.0901	"	"	"	"	"	
Zinc	ND		33.3	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.101	0.0869	0.217	mg/kg dry	1	2631202	06/25/2024	06/25/2024	J
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

BG05@6'
6/12/2024 3:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-12 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B4F1321	06/13/2024	06/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	06/13/2024	06/14/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.87			pH Units	1	B4F1316	06/13/2024	06/14/2024	
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SAR by 20B Saturated Paste

SAR	0.401		0.0100	SAR	1	B4F1312	06/13/2024	06/14/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0679		0.00500	mmhos/cm	1	B4F1316	06/13/2024	06/14/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.85		0.253	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Barium	58.2		8.74	"	"	"	"	"	
Cadmium	ND		0.0874	"	"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

BG05@6'
6/12/2024 3:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-12 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.74	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Lead	5.61		0.874	"	"	"	"	"	
Nickel	4.94		0.874	"	"	"	"	"	
Selenium	ND		0.227	"	"	"	"	"	
Silver	ND		0.0874	"	"	"	"	"	
Zinc	ND		32.3	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.117	0.293	mg/kg dry	1	2631202	06/25/2024	06/25/2024	U
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

BG06@3'
6/12/2024 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-13 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B4F1321	06/13/2024	06/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	06/13/2024	06/14/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.40			pH Units	1	B4F1316	06/13/2024	06/14/2024	
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SAR by 20B Saturated Paste

SAR	0.241		0.0100	SAR	1	B4F1312	06/13/2024	06/14/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0573		0.00500	mmhos/cm	1	B4F1316	06/13/2024	06/14/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.75		0.263	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Barium	57.2		9.07	"	"	"	"	"	
Cadmium	ND		0.0907	"	"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

BG06@3'
6/12/2024 3:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-13 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.07	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Lead	4.85		0.907	"	"	"	"	"	
Nickel	4.59		0.907	"	"	"	"	"	
Selenium	ND		0.236	"	"	"	"	"	
Silver	ND		0.0907	"	"	"	"	"	
Zinc	ND		33.6	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.128	0.319	mg/kg dry	1	2631202	06/25/2024	06/25/2024	U
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

BG06@6'
6/12/2024 3:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-14 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0991	mg/L	1	B4F1322	06/13/2024	06/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.07		0.499	meq/L	10	[CALC]	06/13/2024	06/14/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.52			pH Units	1	B4F1317	06/13/2024	06/14/2024	
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SAR by 20B Saturated Paste

SAR	0.218		0.0100	SAR	1	B4F1313	06/13/2024	06/14/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.217		0.00500	mmhos/cm	1	B4F1317	06/13/2024	06/14/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.67		0.272	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Barium	59.9		9.38	"	"	"	"	"	
Cadmium	ND		0.0938	"	"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Wheeler 1-21A

BG06@6'
6/12/2024 3:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406361-14 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.38	mg/kg	10	B4F1249	06/12/2024	06/13/2024	
Lead	4.34		0.938	"	"	"	"	"	
Nickel	4.56		0.938	"	"	"	"	"	
Selenium	ND		0.244	"	"	"	"	"	
Silver	ND		0.0938	"	"	"	"	"	
Zinc	ND		34.7	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.140	0.349	mg/kg dry	1	2631202	06/25/2024	06/25/2024	U
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1251 - EPA 3550B										
Blank (B4F1251-BLK1)										
					Prepared: 06/12/2024 Analyzed: 06/12/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	21		"	24.9		85.4	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 - Wheeler 1-21A

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 B4F1251 - EPA 3550B

LCS (B4F1251-BS1)

Prepared: 06/12/2024 Analyzed: 06/12/2024

Diesel (C10-C28)	865	50.0	mg/kg	1000		86.5	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	59		"	49.8		118	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 - Wheeler 1-21A

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 B4F1251 - EPA 3550B										
Matrix Spike (B4F1251-MS1)		Source: Y406360-01			Prepared: 06/12/2024 Analyzed: 06/13/2024					
Diesel (C10-C28)	724	50.0	mg/kg	1000	ND	72.4	70-130			
Residual Range Organics (C28-C40)	846	200	"	1000	ND	84.6	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.9	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 - Wheeler 1-21A

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 B4F1251 - EPA 3550B										
Matrix Spike Dup (B4F1251-MSD1)					Source: Y406360-01					Prepared: 06/12/2024 Analyzed: 06/13/2024
Diesel (C10-C28)	743	50.0	mg/kg	1000	ND	74.3	70-130	2.60	35	
Residual Range Organics (C28-C40)	835	200	"	1000	ND	83.5	70-130	1.29	35	
Surrogate: o-Terphenyl	38		"	49.8		75.6	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 - Wheeler 1-21A

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 B4F1252 - EPA 5030 (soil)

Blank (B4F1252-BLK1)

Prepared: 06/12/2024 Analyzed: 06/12/2024

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	0.11		"	0.125	88.3		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	103		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 - Wheeler 1-21A

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 B4F1252 - EPA 5030 (soil)

LCS (B4F1252-BS1)

Prepared: 06/12/2024 Analyzed: 06/12/2024

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.0973	0.00200	"	0.100		97.3	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Naphthalene	0.109	0.00380	"	0.100		109	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.111	0.00200	"	0.100		111	70-130			
m,p-Xylene	0.216	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1252 - EPA 5030 (soil)

Matrix Spike (B4F1252-MS1)	Source: Y406360-01			Prepared: 06/12/2024 Analyzed: 06/12/2024						
1,2,4-Trimethylbenzene	0.0994	0.00200	mg/kg	0.100	ND	99.4	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Benzene	0.0927	0.00200	"	0.100	ND	92.7	70-130			
Ethylbenzene	0.0988	0.00200	"	0.100	ND	98.8	70-130			
Naphthalene	0.0986	0.00380	"	0.100	0.00136	97.2	70-130			
Toluene	0.0976	0.00200	"	0.100	ND	97.6	70-130			
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130			
m,p-Xylene	0.199	0.00400	"	0.200	ND	99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		83.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	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 - Wheeler 1-21A

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 B4F1252 - EPA 5030 (soil)

Matrix Spike Dup (B4F1252-MSD1)	Source: Y406360-01			Prepared: 06/12/2024 Analyzed: 06/12/2024						
1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100	ND	100	70-130	0.662	20	
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	0.238	20	
Benzene	0.0909	0.00200	"	0.100	ND	90.9	70-130	2.03	20	
Ethylbenzene	0.0980	0.00200	"	0.100	ND	98.0	70-130	0.853	20	
Naphthalene	0.100	0.00380	"	0.100	0.00136	99.1	70-130	1.85	20	
Toluene	0.0957	0.00200	"	0.100	ND	95.7	70-130	2.01	20	
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130	0.723	20	
m,p-Xylene	0.200	0.00400	"	0.200	ND	99.8	70-130	0.181	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1249 - EPA 3050B

Blank (B4F1249-BLK1)

Prepared: 06/12/2024 Analyzed: 06/13/2024

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 (B4F1249-BS1)

Prepared: 06/12/2024 Analyzed: 06/13/2024

Arsenic	5.27	0.290	mg/kg	5.00		105	80-120			
Barium	531	10.0	"	500		106	80-120			
Cadmium	5.64	0.100	"	5.00		113	80-120			
Copper	54.3	10.0	"	50.0		109	80-120			
Lead	5.15	1.00	"	5.00		103	80-120			
Nickel	5.42	1.00	"	5.00		108	80-120			
Selenium	10.1	0.260	"	9.50		106	80-120			
Silver	5.29	0.100	"	5.00		106	80-120			
Zinc	51.4	37.0	"	50.0		103	80-120			

Matrix Spike (B4F1249-MS1)

Source: Y406361-01

Prepared: 06/12/2024 Analyzed: 06/13/2024

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1249 - EPA 3050B

Matrix Spike (B4F1249-MS1)		Source: Y406361-01			Prepared: 06/12/2024 Analyzed: 06/13/2024					
Arsenic	6.80	0.257	mg/kg	4.43	2.33	101	75-125			
Barium	538	8.86	"	443	94.6	100	75-125			
Cadmium	5.13	0.0886	"	4.43	0.0612	114	75-125			
Copper	54.7	8.86	"	44.3	5.63	111	75-125			
Lead	10.8	0.886	"	4.43	7.24	81.4	75-125			
Nickel	10.8	0.886	"	4.43	6.48	96.6	75-125			
Selenium	9.42	0.230	"	8.41	0.0603	111	75-125			
Silver	5.09	0.0886	"	4.43	0.0247	114	75-125			
Zinc	68.0	32.8	"	44.3	24.4	98.6	75-125			

Matrix Spike Dup (B4F1249-MSD1)		Source: Y406361-01			Prepared: 06/12/2024 Analyzed: 06/13/2024					
Arsenic	6.76	0.250	mg/kg	4.30	2.33	103	75-125	0.578	20	
Barium	554	8.61	"	430	94.6	107	75-125	2.90	20	
Cadmium	5.11	0.0861	"	4.30	0.0612	117	75-125	0.374	20	
Copper	53.7	8.61	"	43.0	5.63	112	75-125	1.80	20	
Lead	13.9	0.861	"	4.30	7.24	155	75-125	24.9	20	QR-DUP
Nickel	10.7	0.861	"	4.30	6.48	98.0	75-125	0.551	20	
Selenium	8.82	0.224	"	8.18	0.0603	107	75-125	6.59	20	
Silver	5.13	0.0861	"	4.30	0.0247	119	75-125	0.914	20	
Zinc	68.4	31.9	"	43.0	24.4	102	75-125	0.544	20	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1244 - EPA 3580

Blank (B4F1244-BLK1)

Prepared: 06/12/2024 Analyzed: 06/14/2024

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		103	60-130			
Surrogate: Anthracene-d10	200		"	200		99.2	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

LCS (B4F1244-BS1)

Prepared: 06/12/2024 Analyzed: 06/14/2024

1-Methylnaphthalene	0.198	0.002	mg/kg	0.200		99.2	70-130			
2-Methylnaphthalene	0.197	0.002	"	0.200		98.4	70-130			
Acenaphthene	0.196	0.020	"	0.200		97.9	70-130			
Anthracene	0.201	0.020	"	0.200		100	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 - Wheeler 1-21A

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 B4F1244 - EPA 3580

LCS (B4F1244-BS1)

Prepared: 06/12/2024 Analyzed: 06/14/2024

Benzo (a) anthracene	0.210	0.005	mg/kg	0.200		105	70-130			
Benzo (a) pyrene	0.206	0.020	"	0.200		103	70-130			
Benzo (b) fluoranthene	0.204	0.020	"	0.200		102	70-130			
Benzo (g,h,i) perylene	0.201	0.020	"	0.200		101	70-130			
Benzo (k) fluoranthene	0.207	0.020	"	0.200		104	70-130			
Chrysene	0.206	0.020	"	0.200		103	70-130			
Dibenz (a,h) anthracene	0.212	0.020	"	0.200		106	70-130			
Fluoranthene	0.217	0.020	"	0.200		108	70-130			
Fluorene	0.201	0.020	"	0.200		100	70-130			
Indeno (1,2,3-cd) pyrene	0.195	0.020	"	0.200		97.6	70-130			
Naphthalene	0.196	0.002	"	0.200		97.8	70-130			
Phenanthrene	0.196	0.020	"	0.200		98.0	70-130			
Pyrene	0.195	0.020	"	0.200		97.6	70-130			

Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	200		"	200		99.1	60-130			
Surrogate: Pyrene-d10	200		"	200		99.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike (B4F1244-MS1)

Source: Y406355-01

Prepared: 06/12/2024 Analyzed: 06/14/2024

1-Methylnaphthalene	0.202	0.002	mg/kg	0.200	ND	101	70-130			
2-Methylnaphthalene	0.202	0.002	"	0.200	ND	101	70-130			
Acenaphthene	0.201	0.020	"	0.200	ND	101	70-130			
Anthracene	0.203	0.020	"	0.200	ND	102	70-130			
Benzo (a) anthracene	0.210	0.005	"	0.200	ND	105	70-130			
Benzo (a) pyrene	0.211	0.020	"	0.200	ND	105	70-130			
Benzo (b) fluoranthene	0.212	0.020	"	0.200	ND	106	70-130			
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	0.0005	103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1244 - EPA 3580

Matrix Spike (B4F1244-MS1)		Source: Y406355-01			Prepared: 06/12/2024 Analyzed: 06/14/2024					
Benzo (k) fluoranthene	0.216	0.020	mg/kg	0.200	ND	108	70-130			
Chrysene	0.212	0.020	"	0.200	0.002	105	70-130			
Dibenz (a,h) anthracene	0.222	0.020	"	0.200	ND	111	70-130			
Fluoranthene	0.226	0.020	"	0.200	ND	113	70-130			
Fluorene	0.208	0.020	"	0.200	ND	104	70-130			
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200	ND	102	70-130			
Naphthalene	0.200	0.002	"	0.200	ND	99.8	70-130			
Phenanthrene	0.200	0.020	"	0.200	ND	99.9	70-130			
Pyrene	0.196	0.020	"	0.200	ND	98.0	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	200		"	200		98.9	60-130			
Surrogate: Pyrene-d10	190		"	200		96.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.8	60-130			

Matrix Spike Dup (B4F1244-MSD1)		Source: Y406355-01			Prepared: 06/12/2024 Analyzed: 06/14/2024					
1-Methylnaphthalene	0.200	0.002	mg/kg	0.200	ND	100	70-130	0.905	20	
2-Methylnaphthalene	0.198	0.002	"	0.200	ND	99.2	70-130	1.64	20	
Acenaphthene	0.198	0.020	"	0.200	ND	99.0	70-130	1.79	20	
Anthracene	0.196	0.020	"	0.200	ND	98.0	70-130	3.71	20	
Benzo (a) anthracene	0.218	0.005	"	0.200	ND	109	70-130	3.82	20	
Benzo (a) pyrene	0.206	0.020	"	0.200	ND	103	70-130	2.19	20	
Benzo (b) fluoranthene	0.209	0.020	"	0.200	ND	104	70-130	1.36	20	
Benzo (g,h,i) perylene	0.203	0.020	"	0.200	0.0005	101	70-130	2.01	20	
Benzo (k) fluoranthene	0.215	0.020	"	0.200	ND	108	70-130	0.407	20	
Chrysene	0.210	0.020	"	0.200	0.002	104	70-130	1.01	20	
Dibenz (a,h) anthracene	0.217	0.020	"	0.200	ND	108	70-130	2.39	20	
Fluoranthene	0.219	0.020	"	0.200	ND	109	70-130	3.10	20	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1244 - EPA 3580

Matrix Spike Dup (B4F1244-MSD1)	Source: Y406355-01			Prepared: 06/12/2024 Analyzed: 06/14/2024						
Fluorene	0.205	0.020	mg/kg	0.200	ND	102	70-130	1.22	20	
Indeno (1,2,3-cd) pyrene	0.219	0.020	"	0.200	ND	110	70-130	7.60	20	
Naphthalene	0.197	0.002	"	0.200	ND	98.6	70-130	1.21	20	
Phenanthrene	0.197	0.020	"	0.200	ND	98.6	70-130	1.28	20	
Pyrene	0.200	0.020	"	0.200	ND	99.8	70-130	1.81	20	
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	200		"	200		98.1	60-130			
Surrogate: Pyrene-d10	200		"	200		99.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	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 - Wheeler 1-21A

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 B4F1312 - Saturated Paste Metals

Blank (B4F1312-BLK1)

Prepared: 06/13/2024 Analyzed: 06/14/2024

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

Duplicate (B4F1312-DUP1)

Source: Y406360-12

Prepared: 06/13/2024 Analyzed: 06/14/2024

SAR	ND	0.0100	SAR	1.40					200	
Calcium PPM	16.3	10.0	mg/L	19.9				19.5	50	
Magnesium PPM	3.41	10.0	"	4.17				20.1	50	
Sodium PPM	23.8	10.0	"	26.3				9.97	50	

Batch B4F1313 - Saturated Paste Metals

Blank (B4F1313-BLK1)

Prepared: 06/13/2024 Analyzed: 06/14/2024

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

Duplicate (B4F1313-DUP1)

Source: Y406326-01

Prepared: 06/13/2024 Analyzed: 06/14/2024

SAR	ND	0.0100	SAR	1.16					200	
Calcium PPM	63.2	10.0	mg/L	75.2				17.4	50	
Magnesium PPM	18.3	10.0	"	22.3				19.7	50	
Sodium PPM	39.5	10.0	"	44.6				12.1	50	

Batch B4F1321 - DTPA Sorbitol Preparation

Blank (B4F1321-BLK1)

Prepared: 06/13/2024 Analyzed: 06/14/2024

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1321 - DTPA Sorbitol Preparation										
Blank (B4F1321-BLK1)					Prepared: 06/13/2024 Analyzed: 06/14/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4F1321-DUP1)		Source: Y406360-12			Prepared: 06/13/2024 Analyzed: 06/14/2024					
Boron	0.0737	0.0983	mg/L		0.0591			22.1	50	
Batch B4F1322 - DTPA Sorbitol Preparation										
Blank (B4F1322-BLK1)					Prepared: 06/13/2024 Analyzed: 06/14/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4F1322-DUP1)		Source: Y406326-01			Prepared: 06/13/2024 Analyzed: 06/14/2024					
Boron	0.934	0.100	mg/L		0.937			0.279	50	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1316 - Saturated Paste pH/EC

Blank (B4F1316-BLK1)

Prepared: 06/13/2024 Analyzed: 06/14/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4F1316-DUP1)

Source: Y406360-12

Prepared: 06/13/2024 Analyzed: 06/14/2024

pH 8.38 pH Units 8.41 0.357 25

Specific Conductance (EC) 0.259 0.00500 mmhos/cm 0.292 11.9 25

Batch B4F1317 - Saturated Paste pH/EC

Blank (B4F1317-BLK1)

Prepared: 06/13/2024 Analyzed: 06/14/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4F1317-DUP1)

Source: Y406326-01

Prepared: 06/13/2024 Analyzed: 06/14/2024

pH 8.42 pH Units 8.46 0.474 25

Specific Conductance (EC) 0.674 0.00500 mmhos/cm 0.801 17.1 25

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2631202 - SW846 3060A										
BLANK (1205771118-BLK)					Prepared: 06/25/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	ND	0.302	mg/kg				-			U
LCS (1205771119-BKS)					Prepared: 06/25/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	3.15	0.319	mg/kg	3.19		98.8	80-120			
DUP (1205771120 D)					Source: Y406361-01 Prepared: 06/25/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	0.440	0.389	mg/kg dry		0.440		0-50	0.0781	50	
MS (1205771121 S)					Source: Y406361-01 Prepared: 06/25/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	3.28	0.389	mg/kg dry	3.89	0.440	73.1	75-125			
DUP (1205771122 D)					Source: Y406361-11 Prepared: 06/25/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	0.126	0.217	mg/kg dry		0.101		0-50	21.2	50	J
MS (1205771123 S)					Source: Y406361-11 Prepared: 06/25/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	1.54	0.217	mg/kg dry	2.17	0.101	66.4	75-125			
ILCS (1205771124-ILCS)					Prepared: 06/25/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	5.23	0.250	mg/kg	5.02		104	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 - Wheeler 1-21A

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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July 02, 2024

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Wheeler 1-21A

Project Number - [none]

Attached are your analytical results for KMG - Wheeler 1-21A received by Origins Laboratory, Inc. June 13, 2024. This project is associated with Origins project number Y406401-01.

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 - Wheeler 1-21A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B02@4'	Y406401-01	Soil	June 13, 2024 14:28	06/13/2024 16:50

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

ORIGINS
 LABORATORY INC
 Client: TASMAN/OXY

Y406401


Page 1 of 1

Address: 68555 W 119th Ave, Broomfield, Co 80020
 Telephone Number: PM Contact # (720) 939-3631
 Email Address: OXY/Tasman distribution list
 Project Manager: Andy Sagen
 Project Name: Wheeler 1-21A
 Project Number: [blank]
 Collected By: Doug Decker
 Invoice/Billing Info: [blank]
 Key: W=Water
 GW=Groundwater
 SW=Surface Water
 WW=Waste Water
 L=Liquid

S=Soil | SO=Soil | O=Oil | A=Air | G=Gas | UNP=Unpres | HCl= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date	Time	# of Containers	Matrix Preservative	Analysis								Comments			
						GBTEXN+	TMBS	DRO/ORO	PAH	pH/EC/SAR	Boron	915 Metals	Full Table 915				
1	FL-BR091	6/13/24	1650	5													
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Relinquished By: [Signature] Date: 6/13/24 Time: 1650
 Received By: [Signature] Date: 6/13/24 Time: 1650
 Temp Received - 10 Received On Ice? Yes No
 Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr
 Standard

Origins Laboratory, Inc.


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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4406401 Client: Tasman
 Client Project ID: Wheeler 1-21A
 Checklist Completed by: JAD Shipped Via: HO
 Date/time completed: 6/13/12 (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, 10 °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"/>		SO
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) JAD Date/Time Reviewed 6/13/12

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 - Wheeler 1-21A

FL-B02@4'

6/13/2024 2:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406401-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B4F1410	06/14/2024	06/17/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4F1347	06/13/2024	06/14/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	95.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4F1348	06/13/2024	06/13/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	101 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

FL-B02@4'

6/13/2024 2:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406401-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.0 %		70-130			B4F13 48	06/13/2024	06/13/2024	
Surrogate: 4-Bromofluorobenzene	96.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.11		0.499	meq/L	10	[CALC]	06/14/2024	06/18/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.755		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4F1342	06/13/2024	06/15/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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Tasman Geosciences
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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

FL-B02@4'

6/13/2024 2:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406401-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4F1342	06/13/2024	06/15/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	114 %		60-130			"	"	"	
Surrogate: Anthracene-d10	93.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	91.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	115 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.26			pH Units	1	B4F1418	06/14/2024	06/18/2024	
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SAR by 20B Saturated Paste

SAR	0.831		0.0100	SAR	1	B4F1414	06/14/2024	06/18/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.266		0.00500	mmhos/cm	1	B4F1418	06/14/2024	06/18/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

FL-B02@4'

6/13/2024 2:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406401-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.46		0.268	mg/kg	10	B4F1334	06/13/2024	06/14/2024	
Barium	48.2		9.25	"	"	"	"	"	
Cadmium	ND		0.0925	"	"	"	"	"	
Copper	ND		9.25	"	"	"	"	"	
Lead	4.40		0.925	"	"	"	"	"	
Nickel	4.56		0.925	"	"	"	"	"	
Selenium	ND		0.240	"	"	"	"	"	
Silver	ND		0.0925	"	"	"	"	"	
Zinc	ND		34.2	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.270	0.187	0.468	mg/kg dry	1	2632934	06/27/2024	07/01/2024	J
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Origins Laboratory, Inc.



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Tasman Geosciences
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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1347 - EPA 3550B										
Blank (B4F1347-BLK1)										
					Prepared: 06/13/2024 Analyzed: 06/14/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	25		"	24.9		102	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
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Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1347 - EPA 3550B

LCS (B4F1347-BS1)

Prepared: 06/13/2024 Analyzed: 06/14/2024

Diesel (C10-C28)	907	50.0	mg/kg	1000		90.7	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	62		"	49.8		124	50-150			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1347 - EPA 3550B

Matrix Spike (B4F1347-MS1)	Source: Y406400-01			Prepared: 06/13/2024 Analyzed: 06/14/2024						
Diesel (C10-C28)	903	50.0	mg/kg	1000	ND	90.3	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130			
Surrogate: o-Terphenyl	48		"	49.8		95.7	50-150			

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 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1347 - EPA 3550B										
Matrix Spike Dup (B4F1347-MSD1)		Source: Y406400-01			Prepared: 06/13/2024 Analyzed: 06/14/2024					
Diesel (C10-C28)	919	50.0	mg/kg	1000	ND	91.9	70-130	1.78	35	
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130	1.26	35	
Surrogate: o-Terphenyl	50		"	49.8		100	50-150			

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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1348 - EPA 5030 (soil)										
Blank (B4F1348-BLK1)										
					Prepared: 06/13/2024 Analyzed: 06/13/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	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 - Wheeler 1-21A

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 B4F1348 - EPA 5030 (soil)

LCS (B4F1348-BS1)

Prepared: 06/13/2024 Analyzed: 06/13/2024

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.112	0.00200	"	0.100		112	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Naphthalene	0.114	0.00380	"	0.100		114	70-130			
Toluene	0.106	0.00200	"	0.100		106	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.217	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1348 - EPA 5030 (soil)

Matrix Spike (B4F1348-MS1)	Source: Y406400-01			Prepared: 06/13/2024 Analyzed: 06/13/2024						
1,2,4-Trimethylbenzene	0.0766	0.00200	mg/kg	0.100	ND	76.6	70-130			
1,3,5-Trimethylbenzene	0.0762	0.00200	"	0.100	ND	76.2	70-130			
Benzene	0.0858	0.00200	"	0.100	ND	85.8	70-130			
Ethylbenzene	0.0752	0.00200	"	0.100	ND	75.2	70-130			
Naphthalene	0.0787	0.00380	"	0.100	ND	78.7	70-130			
Toluene	0.0770	0.00200	"	0.100	ND	77.0	70-130			
o-Xylene	0.0691	0.00200	"	0.100	ND	69.1	70-130			QM-07
m,p-Xylene	0.148	0.00400	"	0.200	ND	73.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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 - Wheeler 1-21A

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

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

Batch B4F1348 - EPA 5030 (soil)

Matrix Spike Dup (B4F1348-MSD1)	Source: Y406400-01			Prepared: 06/13/2024 Analyzed: 06/13/2024						
1,2,4-Trimethylbenzene	0.0739	0.00200	mg/kg	0.100	ND	73.9	70-130	3.64	20	
1,3,5-Trimethylbenzene	0.0740	0.00200	"	0.100	ND	74.0	70-130	2.82	20	
Benzene	0.0836	0.00200	"	0.100	ND	83.6	70-130	2.57	20	
Ethylbenzene	0.0744	0.00200	"	0.100	ND	74.4	70-130	1.12	20	
Naphthalene	0.0746	0.00380	"	0.100	ND	74.6	70-130	5.43	20	
Toluene	0.0755	0.00200	"	0.100	ND	75.5	70-130	1.86	20	
o-Xylene	0.0678	0.00200	"	0.100	ND	67.8	70-130	1.96	20	QM-07
m,p-Xylene	0.146	0.00400	"	0.200	ND	73.1	70-130	1.09	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1334 - EPA 3050B

Blank (B4F1334-BLK1)

Prepared: 06/13/2024 Analyzed: 06/14/2024

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 (B4F1334-BS1)

Prepared: 06/13/2024 Analyzed: 06/14/2024

Arsenic	5.29	0.290	mg/kg	5.00		106	80-120			
Barium	507	10.0	"	500		101	80-120			
Cadmium	5.04	0.100	"	5.00		101	80-120			
Copper	51.1	10.0	"	50.0		102	80-120			
Lead	5.09	1.00	"	5.00		102	80-120			
Nickel	4.52	1.00	"	5.00		90.4	80-120			
Selenium	10.6	0.260	"	9.50		111	80-120			
Silver	4.95	0.100	"	5.00		99.0	80-120			
Zinc	51.9	37.0	"	50.0		104	80-120			

Matrix Spike (B4F1334-MS1)

Source: Y406104-01

Prepared: 06/13/2024 Analyzed: 06/14/2024

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1334 - EPA 3050B

Matrix Spike (B4F1334-MS1)		Source: Y406104-01			Prepared: 06/13/2024 Analyzed: 06/14/2024					
Arsenic	6.06	0.265	mg/kg	4.56	1.41	102	75-125			
Barium	514	9.13	"	456	49.7	102	75-125			
Cadmium	4.82	0.0913	"	4.56	0.0651	104	75-125			
Copper	49.4	9.13	"	45.6	3.67	100	75-125			
Lead	9.01	0.913	"	4.56	4.64	95.7	75-125			
Nickel	7.69	0.913	"	4.56	3.30	96.1	75-125			
Selenium	9.30	0.237	"	8.67	ND	107	75-125			
Silver	4.59	0.0913	"	4.56	ND	101	75-125			
Zinc	62.0	33.8	"	45.6	17.1	98.4	75-125			

Matrix Spike Dup (B4F1334-MSD1)		Source: Y406104-01			Prepared: 06/13/2024 Analyzed: 06/14/2024					
Arsenic	5.68	0.256	mg/kg	4.41	1.41	96.9	75-125	6.53	20	
Barium	482	8.81	"	441	49.7	98.1	75-125	6.44	20	
Cadmium	4.48	0.0881	"	4.41	0.0651	100	75-125	7.26	20	
Copper	46.8	8.81	"	44.1	3.67	97.8	75-125	5.53	20	
Lead	8.64	0.881	"	4.41	4.64	90.6	75-125	4.26	20	
Nickel	7.44	0.881	"	4.41	3.30	93.9	75-125	3.28	20	
Selenium	8.75	0.229	"	8.37	ND	104	75-125	6.07	20	
Silver	4.27	0.0881	"	4.41	ND	97.0	75-125	7.12	20	
Zinc	59.0	32.6	"	44.1	17.1	95.0	75-125	5.03	20	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1342 - EPA 3580

Blank (B4F1342-BLK1)

Prepared: 06/13/2024 Analyzed: 06/15/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	190		ug/kg	200		95.0	60-130			
Surrogate: Anthracene-d10	170		"	200		83.8	60-130			
Surrogate: Pyrene-d10	180		"	200		92.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.5	60-130			

LCS (B4F1342-BS1)

Prepared: 06/13/2024 Analyzed: 06/15/2024

1-Methylnaphthalene	0.184	0.002	mg/kg	0.200		92.2	70-130			
2-Methylnaphthalene	0.189	0.002	"	0.200		94.6	70-130			
Acenaphthene	0.178	0.020	"	0.200		89.2	70-130			
Anthracene	0.194	0.020	"	0.200		96.8	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 - Wheeler 1-21A

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 B4F1342 - EPA 3580

LCS (B4F1342-BS1)

Prepared: 06/13/2024 Analyzed: 06/15/2024

Benzo (a) anthracene	0.152	0.005	mg/kg	0.200		75.8	70-130			
Benzo (a) pyrene	0.180	0.020	"	0.200		90.0	70-130			
Benzo (b) fluoranthene	0.210	0.020	"	0.200		105	70-130			
Benzo (g,h,i) perylene	0.214	0.020	"	0.200		107	70-130			
Benzo (k) fluoranthene	0.189	0.020	"	0.200		94.4	70-130			
Chrysene	0.208	0.020	"	0.200		104	70-130			
Dibenz (a,h) anthracene	0.172	0.020	"	0.200		85.8	70-130			
Fluoranthene	0.171	0.020	"	0.200		85.4	70-130			
Fluorene	0.184	0.020	"	0.200		91.9	70-130			
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200		101	70-130			
Naphthalene	0.188	0.002	"	0.200		94.0	70-130			
Phenanthrene	0.181	0.020	"	0.200		90.3	70-130			
Pyrene	0.171	0.020	"	0.200		85.3	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		97.2	60-130			
Surrogate: Anthracene-d10	170		"	200		85.2	60-130			
Surrogate: Pyrene-d10	180		"	200		88.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.3	60-130			

Matrix Spike (B4F1342-MS1)

Source: Y406400-01

Prepared: 06/13/2024 Analyzed: 06/15/2024

1-Methylnaphthalene	0.217	0.002	mg/kg	0.200	ND	109	70-130			
2-Methylnaphthalene	0.208	0.002	"	0.200	0.0008	104	70-130			
Acenaphthene	0.205	0.020	"	0.200	ND	102	70-130			
Anthracene	0.226	0.020	"	0.200	ND	113	70-130			
Benzo (a) anthracene	0.230	0.005	"	0.200	0.002	114	70-130			
Benzo (a) pyrene	0.212	0.020	"	0.200	0.002	105	70-130			
Benzo (b) fluoranthene	0.190	0.020	"	0.200	0.004	92.8	70-130			
Benzo (g,h,i) perylene	0.158	0.020	"	0.200	0.001	78.3	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 - Wheeler 1-21A

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 B4F1342 - EPA 3580

Matrix Spike (B4F1342-MS1)	Source: Y406400-01				Prepared: 06/13/2024 Analyzed: 06/15/2024					
Benzo (k) fluoranthene	0.199	0.020	mg/kg	0.200	0.003	98.0	70-130			
Chrysene	0.201	0.020	"	0.200	0.003	99.1	70-130			
Dibenz (a,h) anthracene	0.143	0.020	"	0.200	0.001	70.8	70-130			
Fluoranthene	0.244	0.020	"	0.200	0.002	121	70-130			
Fluorene	0.205	0.020	"	0.200	0.002	101	70-130			
Indeno (1,2,3-cd) pyrene	0.179	0.020	"	0.200	0.002	88.5	70-130			
Naphthalene	0.195	0.002	"	0.200	ND	97.6	70-130			
Phenanthrene	0.231	0.020	"	0.200	0.001	115	70-130			
Pyrene	0.211	0.020	"	0.200	0.002	104	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	220		"	200		108	60-130			
Surrogate: Pyrene-d10	200		"	200		99.6	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		112	60-130			

Matrix Spike Dup (B4F1342-MSD1)	Source: Y406400-01				Prepared: 06/13/2024 Analyzed: 06/15/2024					
1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	ND	95.8	70-130	12.5	20	
2-Methylnaphthalene	0.203	0.002	"	0.200	0.0008	101	70-130	2.48	20	
Acenaphthene	0.210	0.020	"	0.200	ND	105	70-130	2.62	20	
Anthracene	0.207	0.020	"	0.200	ND	103	70-130	9.08	20	
Benzo (a) anthracene	0.191	0.005	"	0.200	0.002	94.3	70-130	19.0	20	
Benzo (a) pyrene	0.198	0.020	"	0.200	0.002	98.2	70-130	6.57	20	
Benzo (b) fluoranthene	0.222	0.020	"	0.200	0.004	109	70-130	15.6	20	
Benzo (g,h,i) perylene	0.192	0.020	"	0.200	0.001	95.6	70-130	19.7	20	
Benzo (k) fluoranthene	0.220	0.020	"	0.200	0.003	108	70-130	9.97	20	
Chrysene	0.218	0.020	"	0.200	0.003	108	70-130	8.26	20	
Dibenz (a,h) anthracene	0.223	0.020	"	0.200	0.001	111	70-130	43.9	20	QR-02
Fluoranthene	0.230	0.020	"	0.200	0.002	114	70-130	5.83	20	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1342 - EPA 3580

Matrix Spike Dup (B4F1342-MSD1)		Source: Y406400-01			Prepared: 06/13/2024 Analyzed: 06/15/2024					
Fluorene	0.168	0.020	mg/kg	0.200	0.002	82.6	70-130	20.0	20	
Indeno (1,2,3-cd) pyrene	0.220	0.020	"	0.200	0.002	109	70-130	20.3	20	QR-02
Naphthalene	0.206	0.002	"	0.200	ND	103	70-130	5.36	20	
Phenanthrene	0.209	0.020	"	0.200	0.001	104	70-130	10.3	20	
Pyrene	0.210	0.020	"	0.200	0.002	104	70-130	0.554	20	
Surrogate: Fluorene-d10	160		ug/kg	200		81.7	60-130			
Surrogate: Anthracene-d10	170		"	200		84.8	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		89.2	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 - Wheeler 1-21A

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 B4F1410 - DTPA Sorbitol Preparation

Blank (B4F1410-BLK1)

Prepared: 06/14/2024 Analyzed: 06/17/2024

Boron ND 0.100 mg/L

Duplicate (B4F1410-DUP1)

Source: Y406369-01

Prepared: 06/14/2024 Analyzed: 06/17/2024

Boron 1.57 0.0989 mg/L 1.08 37.1 50

Batch B4F1414 - Saturated Paste Metals

Blank (B4F1414-BLK1)

Prepared: 06/14/2024 Analyzed: 06/18/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B4F1414-DUP1)

Source: Y406395-06

Prepared: 06/14/2024 Analyzed: 06/18/2024

Calcium PPM 180 10.0 mg/L 170 6.05 50

SAR ND 0.0100 SAR 0.346 200

Magnesium PPM 51.3 10.0 mg/L 47.4 7.90 50

Sodium PPM 20.4 10.0 " 19.8 3.13 50

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1418 - Saturated Paste pH/EC										
Blank (B4F1418-BLK1)					Prepared: 06/14/2024 Analyzed: 06/18/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4F1418-DUP1)					Source: Y406395-06 Prepared: 06/14/2024 Analyzed: 06/18/2024					
Specific Conductance (EC)	1.16	0.00500	mmhos/cm		1.11			4.84	25	
pH	8.29		pH Units		8.31			0.241	25	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2632934 - SW846 3060A										
BLANK (1205774524-BLK)					Prepared: 06/27/2024 Analyzed: 07/01/2024					
Hexavalent Chromium	ND	0.379	mg/kg				-			U
LCS (1205774525-BKS)					Prepared: 06/27/2024 Analyzed: 07/01/2024					
Hexavalent Chromium	3.73	0.382	mg/kg	3.82		97.6	80-120			
DUP (1205774526 D)					Source: 672029001 Prepared: 06/27/2024 Analyzed: 07/01/2024					
Hexavalent Chromium	0.283	0.410	mg/kg dry		0.192		0-50	38.4	50	J
MS (1205774527 S)					Source: 672029001 Prepared: 06/27/2024 Analyzed: 07/01/2024					
Hexavalent Chromium	3.46	0.410	mg/kg dry	4.10	0.192	79.7	75-125			
DUP (1205774528 D)					Source: 672029011 Prepared: 06/27/2024 Analyzed: 07/01/2024					
Hexavalent Chromium	ND	0.377	mg/kg dry		<0.151		0-50	N/A	50	U
MS (1205774529 S)					Source: 672029011 Prepared: 06/27/2024 Analyzed: 07/01/2024					
Hexavalent Chromium	2.93	0.377	mg/kg dry	3.77	<0.151	76.4	75-125			
ILCS (1205774530-ILCS)					Prepared: 06/27/2024 Analyzed: 07/01/2024					
Hexavalent Chromium	7.83	0.386	mg/kg	7.87		99.5	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 - Wheeler 1-21A

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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 14, 2024

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Wheeler 1-21A

Project Number - [none]

Attached are your analytical results for KMG - Wheeler 1-21A received by Origins Laboratory, Inc. June 13, 2024. This project is associated with Origins project number Y406402-01.

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 - Wheeler 1-21A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-FL-B02@4'	Y406402-01	Water	June 13, 2024 15:52	06/13/2024 16:50

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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

ORIGINS

LABORATORY INC

Client: TASMAN/OXY

4406402

Page 1 of 1

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

Project Manager: Andy Sagen

Key:

Project Name: Wheeler 1-21A

W=Water

Project Number: 4406402

GW=Groundwater

Telephone Number: PM Contact # (720) 939-3631

Collected By: AS

SW=Surface Water

Email Address: OXY/Tasman distribution list

Invoice/billing info: Wheeler 1-21A

WW=Waste Water

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas || UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

L=Liquid

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis			Comments
							btx	ext	mbs	
1	GN-FL-90104	6/13/14	152	3	W	HCL	X			
2										
3										
4										
5										
6										
7										
8										
9										
10										

Relinquished By: [Signature] Date: 6/13/14 Time: 1650

Received By: CHD Date: 6/18/24 Time: 1650

Turnaround Time: SAME 24 Hr 48 Hr 72 Hr

Temp Received: Received On Ice? Yes No

Origins Laboratory, Inc.

Jefe Pellegrini

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 - Wheeler 1-21A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1406402

Client: Tasman

Client Project ID: Wheeler F21A

Checklist Completed by: EHP

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

Date/time completed: 6/13/24

Airbill #: N/A

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

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

Thermometer ID: T005

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"/>		<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"/>		<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"/>	<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"/>		<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"/>		<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) EHP

Date/Time Reviewed 6/13/24

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 - Wheeler 1-21A

GW-FL-B02@4'
6/13/2024 3:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406402-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F1332	JSM	06/13/2024	06/13/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.8 %	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 - Wheeler 1-21A

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 B4F1332 - EPA 5030B (Water)

Blank (B4F1332-BLK1)

Prepared: 06/13/2024 Analyzed: 06/13/2024

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	103		70-130			
Surrogate: Toluene-d8	63		"	62.5	100		70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.0		70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1332 - EPA 5030B (Water)

LCS (B4F1332-BS1)

Prepared: 06/13/2024 Analyzed: 06/13/2024

1,2,4-Trimethylbenzene	46.9	2.00	ug/L	50.0		93.9	70-130			
1,3,5-Trimethylbenzene	46.3	2.00	"	50.0		92.5	70-130			
Benzene	48.5	1.00	"	50.0		97.0	70-130			
Ethylbenzene	49.4	1.00	"	50.0		98.7	70-130			
m,p-Xylene	100	2.00	"	100		100	70-130			
Naphthalene	48.7	2.00	"	50.0		97.4	70-130			
o-Xylene	45.8	1.00	"	50.0		91.7	70-130			
Toluene	51.7	1.00	"	50.0		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.2	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.6	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 - Wheeler 1-21A

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 B4F1332 - EPA 5030B (Water)

Matrix Spike (B4F1332-MS1)	Source: Y406366-01			Prepared: 06/13/2024 Analyzed: 06/13/2024						
1,2,4-Trimethylbenzene	50.4	2.00	ug/L	50.0	ND	101	70-130			
1,3,5-Trimethylbenzene	50.0	2.00	"	50.0	ND	100	70-130			
Benzene	49.3	1.00	"	50.0	ND	98.5	70-130			
Ethylbenzene	49.5	1.00	"	50.0	ND	99.0	70-130			
m,p-Xylene	93.0	2.00	"	100	ND	93.0	70-130			
Naphthalene	48.2	2.00	"	50.0	1.04	94.4	70-130			
o-Xylene	43.5	1.00	"	50.0	ND	87.1	70-130			
Toluene	51.7	1.00	"	50.0	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.9	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.2	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 - Wheeler 1-21A

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 B4F1332 - EPA 5030B (Water)

Matrix Spike Dup (B4F1332-MSD1)	Source: Y406366-01			Prepared: 06/13/2024 Analyzed: 06/13/2024						
1,2,4-Trimethylbenzene	53.8	2.00	ug/L	50.0	ND	108	70-130	6.35	20	
1,3,5-Trimethylbenzene	55.5	2.00	"	50.0	ND	111	70-130	10.3	20	
Benzene	55.0	1.00	"	50.0	ND	110	70-130	10.9	20	
Ethylbenzene	56.9	1.00	"	50.0	ND	114	70-130	13.9	20	
m,p-Xylene	108	2.00	"	100	ND	108	70-130	15.3	20	
Naphthalene	54.1	2.00	"	50.0	1.04	106	70-130	11.4	20	
o-Xylene	49.3	1.00	"	50.0	ND	98.5	70-130	12.4	20	
Toluene	54.2	1.00	"	50.0	ND	108	70-130	4.63	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.9	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Wheeler 1-21A

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 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.

Jen Pellegrini, Project Manager

June 28, 2024

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Wheeler 1-21A

Project Number - [none]

Attached are your analytical results for KMG - Wheeler 1-21A received by Origins Laboratory, Inc. June 14, 2024. This project is associated with Origins project number Y406433-01.

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 - Wheeler 1-21A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B04@4'	Y406433-01	Soil	June 14, 2024 12:32	06/14/2024 15:16

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4406433

Client: Tasman
 Client Project ID: Wheeler 1-21A

Checklist Completed by: EHO
 Date/time completed: 6/14/24

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

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


Cooler Number/Temperature: 1517 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: TD05

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽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 type="checkbox"/>	<input type="checkbox"/>	<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) EHO Date/Time Reviewed 6/14/24

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 - Wheeler 1-21A

FL-B04@4'

6/14/2024 12:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406433-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.199		0.0989	mg/L	1	B4F1706	06/17/2024	06/17/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4F1450	06/14/2024	06/15/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

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

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4F1456	06/14/2024	06/15/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

FL-B04@4'

6/14/2024 12:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406433-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.4 %		70-130			B4F14 56	06/14/2024	06/15/2024	
Surrogate: 4-Bromofluorobenzene	98.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.36		0.499	meq/L	10	[CALC]	06/18/2024	06/19/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	4.51		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4F1430	06/14/2024	06/15/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

FL-B04@4'

6/14/2024 12:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406433-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4F1430	06/14/2024	06/15/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.7 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	111 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.39			pH Units	1	B4F1811	06/18/2024	06/19/2024	
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SAR by 20B Saturated Paste

SAR	4.64		0.0100	SAR	1	B4F1806	06/18/2024	06/19/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.531		0.00500	mmhos/cm	1	B4F1811	06/18/2024	06/19/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

FL-B04@4'

6/14/2024 12:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y406433-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.80		0.263	mg/kg	10	B4F1440	06/14/2024	06/15/2024	
Barium	57.0		9.08	"	"	"	"	"	
Cadmium	ND		0.0908	"	"	"	"	"	
Copper	ND		9.08	"	"	"	"	"	
Lead	7.04		0.908	"	"	"	"	"	
Nickel	7.58		0.908	"	"	"	"	"	
Selenium	ND		0.236	"	"	"	"	"	
Silver	ND		0.0908	"	"	"	"	"	
Zinc	ND		33.6	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.147	0.368	mg/kg dry	1	2632215	06/26/2024	06/27/2024	U
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1450 - EPA 3550B										
Blank (B4F1450-BLK1)										
					Prepared: 06/14/2024 Analyzed: 06/15/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	20		"	24.9		81.3	50-150			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1450 - EPA 3550B

LCS (B4F1450-BS1)

Prepared: 06/14/2024 Analyzed: 06/15/2024

Diesel (C10-C28)	835	50.0	mg/kg	1000		83.5	70-130			
Residual Range Organics (C28-C40)	957	200	"	1000		95.7	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.4	50-150			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1450 - EPA 3550B

Matrix Spike (B4F1450-MS1)	Source: Y406432-01			Prepared: 06/14/2024 Analyzed: 06/15/2024						
Diesel (C10-C28)	844	50.0	mg/kg	1000	ND	84.4	70-130			
Residual Range Organics (C28-C40)	972	200	"	1000	ND	97.2	70-130			
Surrogate: o-Terphenyl	46		"	49.8		93.2	50-150			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1450 - EPA 3550B										
Matrix Spike Dup (B4F1450-MSD1)					Source: Y406432-01					Prepared: 06/14/2024 Analyzed: 06/15/2024
Diesel (C10-C28)	871	50.0	mg/kg	1000	ND	87.1	70-130	3.13	35	
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130	4.60	35	
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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 Project: KMG - Wheeler 1-21A

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 B4F1456 - EPA 5030 (soil)

Blank (B4F1456-BLK1)

Prepared: 06/14/2024 Analyzed: 06/14/2024

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	0.11		"	0.125	86.7		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.6		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	104		70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1456 - EPA 5030 (soil)

LCS (B4F1456-BS1)

Prepared: 06/14/2024 Analyzed: 06/14/2024

1,2,4-Trimethylbenzene	0.0931	0.00200	mg/kg	0.100		93.1	70-130			
1,3,5-Trimethylbenzene	0.0920	0.00200	"	0.100		92.0	70-130			
Benzene	0.0860	0.00200	"	0.100		86.0	70-130			
Ethylbenzene	0.0913	0.00200	"	0.100		91.3	70-130			
Naphthalene	0.0897	0.00380	"	0.100		89.7	70-130			
Toluene	0.0858	0.00200	"	0.100		85.8	70-130			
o-Xylene	0.0937	0.00200	"	0.100		93.7	70-130			
m,p-Xylene	0.185	0.00400	"	0.200		92.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1456 - EPA 5030 (soil)

Matrix Spike (B4F1456-MS1)	Source: Y406432-01			Prepared: 06/14/2024 Analyzed: 06/14/2024						
1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100	ND	100	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Benzene	0.0901	0.00200	"	0.100	ND	90.1	70-130			
Ethylbenzene	0.0954	0.00200	"	0.100	ND	95.4	70-130			
Naphthalene	0.0951	0.00380	"	0.100	ND	95.1	70-130			
Toluene	0.0931	0.00200	"	0.100	ND	93.1	70-130			
o-Xylene	0.0922	0.00200	"	0.100	ND	92.2	70-130			
m,p-Xylene	0.188	0.00400	"	0.200	ND	94.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1456 - EPA 5030 (soil)

Matrix Spike Dup (B4F1456-MSD1)	Source: Y406432-01			Prepared: 06/14/2024 Analyzed: 06/14/2024						
1,2,4-Trimethylbenzene	0.0903	0.00200	mg/kg	0.100	ND	90.3	70-130	10.4	20	
1,3,5-Trimethylbenzene	0.0905	0.00200	"	0.100	ND	90.5	70-130	11.2	20	
Benzene	0.0824	0.00200	"	0.100	ND	82.4	70-130	9.02	20	
Ethylbenzene	0.0866	0.00200	"	0.100	ND	86.6	70-130	9.58	20	
Naphthalene	0.0846	0.00380	"	0.100	ND	84.6	70-130	11.8	20	
Toluene	0.0824	0.00200	"	0.100	ND	82.4	70-130	12.3	20	
o-Xylene	0.0827	0.00200	"	0.100	ND	82.7	70-130	10.8	20	
m,p-Xylene	0.170	0.00400	"	0.200	ND	85.0	70-130	10.1	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1440 - EPA 3050B

Blank (B4F1440-BLK1)

Prepared: 06/14/2024 Analyzed: 06/15/2024

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 (B4F1440-BS1)

Prepared: 06/14/2024 Analyzed: 06/15/2024

Arsenic	5.70	0.290	mg/kg	5.00		114	80-120			
Barium	551	10.0	"	500		110	80-120			
Cadmium	5.56	0.100	"	5.00		111	80-120			
Copper	56.0	10.0	"	50.0		112	80-120			
Lead	5.42	1.00	"	5.00		108	80-120			
Nickel	5.54	1.00	"	5.00		111	80-120			
Selenium	10.5	0.260	"	9.50		111	80-120			
Silver	5.68	0.100	"	5.00		114	80-120			
Zinc	57.4	37.0	"	50.0		115	80-120			

Matrix Spike (B4F1440-MS1)

Source: Y406432-01

Prepared: 06/14/2024 Analyzed: 06/15/2024

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 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1440 - EPA 3050B

Matrix Spike (B4F1440-MS1)		Source: Y406432-01			Prepared: 06/14/2024 Analyzed: 06/15/2024					
Arsenic	8.74	0.259	mg/kg	4.47	3.47	118	75-125			
Barium	1380	8.93	"	447	54.9	296	75-125			QM-07
Cadmium	5.21	0.0893	"	4.47	0.0335	116	75-125			
Copper	60.3	8.93	"	44.7	9.67	113	75-125			
Lead	12.6	0.893	"	4.47	6.67	132	75-125			QM-07
Nickel	18.6	0.893	"	4.47	12.8	131	75-125			QM-07
Selenium	9.24	0.232	"	8.49	0.0986	108	75-125			
Silver	5.19	0.0893	"	4.47	ND	116	75-125			
Zinc	91.1	33.0	"	44.7	37.6	120	75-125			

Matrix Spike Dup (B4F1440-MSD1)		Source: Y406432-01			Prepared: 06/14/2024 Analyzed: 06/15/2024					
Arsenic	8.83	0.258	mg/kg	4.45	3.47	120	75-125	1.00	20	
Barium	580	8.89	"	445	54.9	118	75-125	81.4	20	
Cadmium	5.11	0.0889	"	4.45	0.0335	114	75-125	1.93	20	
Copper	60.2	8.89	"	44.5	9.67	114	75-125	0.0299	20	
Lead	12.6	0.889	"	4.45	6.67	134	75-125	0.546	20	QM-07
Nickel	18.7	0.889	"	4.45	12.8	133	75-125	0.434	20	QM-07
Selenium	9.64	0.231	"	8.45	0.0986	113	75-125	4.25	20	
Silver	5.11	0.0889	"	4.45	ND	115	75-125	1.47	20	
Zinc	91.5	32.9	"	44.5	37.6	121	75-125	0.471	20	

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Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1430 - EPA 3580

Blank (B4F1430-BLK1)

Prepared: 06/14/2024 Analyzed: 06/15/2024

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	180		ug/kg	200		89.9	60-130			
Surrogate: Anthracene-d10	170		"	200		86.5	60-130			
Surrogate: Pyrene-d10	180		"	200		90.4	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

LCS (B4F1430-BS1)

Prepared: 06/14/2024 Analyzed: 06/15/2024

1-Methylnaphthalene	0.179	0.002	mg/kg	0.200		89.5	70-130			
2-Methylnaphthalene	0.187	0.002	"	0.200		93.4	70-130			
Acenaphthene	0.189	0.020	"	0.200		94.4	70-130			
Anthracene	0.180	0.020	"	0.200		89.9	70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1430 - EPA 3580

LCS (B4F1430-BS1)

Prepared: 06/14/2024 Analyzed: 06/15/2024

Benzo (a) anthracene	0.197	0.005	mg/kg	0.200		98.6	70-130			
Benzo (a) pyrene	0.175	0.020	"	0.200		87.6	70-130			
Benzo (b) fluoranthene	0.198	0.020	"	0.200		98.8	70-130			
Benzo (g,h,i) perylene	0.192	0.020	"	0.200		96.1	70-130			
Benzo (k) fluoranthene	0.197	0.020	"	0.200		98.7	70-130			
Chrysene	0.191	0.020	"	0.200		95.7	70-130			
Dibenz (a,h) anthracene	0.211	0.020	"	0.200		106	70-130			
Fluoranthene	0.177	0.020	"	0.200		88.6	70-130			
Fluorene	0.182	0.020	"	0.200		91.2	70-130			
Indeno (1,2,3-cd) pyrene	0.204	0.020	"	0.200		102	70-130			
Naphthalene	0.189	0.002	"	0.200		94.3	70-130			
Phenanthrene	0.192	0.020	"	0.200		95.9	70-130			
Pyrene	0.172	0.020	"	0.200		86.0	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		97.1	60-130			
Surrogate: Anthracene-d10	180		"	200		91.3	60-130			
Surrogate: Pyrene-d10	170		"	200		84.8	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

Matrix Spike (B4F1430-MS1)

Source: Y406424-01

Prepared: 06/14/2024 Analyzed: 06/15/2024

1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	ND	96.1	70-130			
2-Methylnaphthalene	0.199	0.002	"	0.200	0.0009	98.9	70-130			
Acenaphthene	0.195	0.020	"	0.200	0.001	96.5	70-130			
Anthracene	0.205	0.020	"	0.200	0.0008	102	70-130			
Benzo (a) anthracene	0.200	0.005	"	0.200	0.003	98.5	70-130			
Benzo (a) pyrene	0.168	0.020	"	0.200	0.002	83.2	70-130			
Benzo (b) fluoranthene	0.180	0.020	"	0.200	0.002	88.7	70-130			
Benzo (g,h,i) perylene	0.231	0.020	"	0.200	0.008	112	70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1430 - EPA 3580

Matrix Spike (B4F1430-MS1)

Source: Y406424-01

Prepared: 06/14/2024 Analyzed: 06/15/2024

Benzo (k) fluoranthene	0.176	0.020	mg/kg	0.200	0.001	87.4	70-130			
Chrysene	0.192	0.020	"	0.200	0.003	94.4	70-130			
Dibenz (a,h) anthracene	0.238	0.020	"	0.200	0.002	118	70-130			
Fluoranthene	0.185	0.020	"	0.200	0.003	91.0	70-130			
Fluorene	0.187	0.020	"	0.200	ND	93.6	70-130			
Indeno (1,2,3-cd) pyrene	0.237	0.020	"	0.200	ND	119	70-130			
Naphthalene	0.193	0.002	"	0.200	0.002	95.9	70-130			
Phenanthrene	0.204	0.020	"	0.200	0.002	101	70-130			
Pyrene	0.197	0.020	"	0.200	0.003	97.4	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		94.5	60-130			
Surrogate: Anthracene-d10	180		"	200		92.3	60-130			
Surrogate: Pyrene-d10	190		"	200		92.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	60-130			

Matrix Spike Dup (B4F1430-MSD1)

Source: Y406424-01

Prepared: 06/14/2024 Analyzed: 06/15/2024

1-Methylnaphthalene	0.195	0.002	mg/kg	0.200	ND	97.6	70-130	1.56	20	
2-Methylnaphthalene	0.198	0.002	"	0.200	0.0009	98.3	70-130	0.645	20	
Acenaphthene	0.194	0.020	"	0.200	0.001	96.2	70-130	0.305	20	
Anthracene	0.217	0.020	"	0.200	0.0008	108	70-130	5.58	20	
Benzo (a) anthracene	0.199	0.005	"	0.200	0.003	98.2	70-130	0.325	20	
Benzo (a) pyrene	0.191	0.020	"	0.200	0.002	94.7	70-130	12.8	20	
Benzo (b) fluoranthene	0.213	0.020	"	0.200	0.002	105	70-130	16.9	20	
Benzo (g,h,i) perylene	0.246	0.020	"	0.200	0.008	119	70-130	6.16	20	
Benzo (k) fluoranthene	0.178	0.020	"	0.200	0.001	88.3	70-130	1.01	20	
Chrysene	0.195	0.020	"	0.200	0.003	95.8	70-130	1.37	20	
Dibenz (a,h) anthracene	0.230	0.020	"	0.200	0.002	114	70-130	3.08	20	
Fluoranthene	0.182	0.020	"	0.200	0.003	89.8	70-130	1.39	20	

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Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1430 - EPA 3580

Matrix Spike Dup (B4F1430-MSD1)	Source: Y406424-01			Prepared: 06/14/2024 Analyzed: 06/15/2024						
Fluorene	0.199	0.020	mg/kg	0.200	ND	99.5	70-130	6.10	20	
Indeno (1,2,3-cd) pyrene	0.246	0.020	"	0.200	ND	123	70-130	3.65	20	
Naphthalene	0.195	0.002	"	0.200	0.002	96.7	70-130	0.867	20	
Phenanthrene	0.206	0.020	"	0.200	0.002	102	70-130	1.04	20	
Pyrene	0.185	0.020	"	0.200	0.003	91.2	70-130	6.48	20	
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		94.3	60-130			
Surrogate: Pyrene-d10	180		"	200		91.8	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

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 B4F1706 - DTPA Sorbitol Preparation

Blank (B4F1706-BLK1)

Prepared: 06/17/2024 Analyzed: 06/17/2024

Boron ND 0.100 mg/L

Duplicate (B4F1706-DUP1)

Source: Y406431-04

Prepared: 06/17/2024 Analyzed: 06/17/2024

Boron 0.182 0.0981 mg/L 0.197 8.18 50

Batch B4F1806 - Saturated Paste Metals

Blank (B4F1806-BLK1)

Prepared: 06/18/2024 Analyzed: 06/19/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B4F1806-DUP1)

Source: Y406428-06

Prepared: 06/18/2024 Analyzed: 06/19/2024

Calcium PPM 9.69 10.0 mg/L 7.80 21.6 50

SAR ND 0.0100 SAR 1.81 200

Magnesium PPM 2.18 10.0 mg/L 1.79 19.6 50

Sodium PPM 22.0 10.0 " 21.5 2.39 50

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1811 - Saturated Paste pH/EC

Blank (B4F1811-BLK1)

Prepared: 06/18/2024 Analyzed: 06/19/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4F1811-DUP1)

Source: Y406428-06

Prepared: 06/18/2024 Analyzed: 06/19/2024

Specific Conductance (EC)	0.189	0.00500	mmhos/cm		0.167		12.1	25	
pH	8.06		pH Units		7.87		2.39	25	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Wheeler 1-21A

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2632215 - SW846 3060A										
BLANK (1205773016-BLK)					Prepared: 06/26/2024 Analyzed: 06/27/2024					
Hexavalent Chromium	ND	0.360	mg/kg				-			U
LCS (1205773017-BKS)					Prepared: 06/26/2024 Analyzed: 06/27/2024					
Hexavalent Chromium	3.83	0.388	mg/kg	3.88		98.8	80-120			
DUP (1205773018 D)					Source: 672037015 Prepared: 06/26/2024 Analyzed: 06/27/2024					
Hexavalent Chromium	0.198	0.293	mg/kg dry		0.230		0-50	14.7	50	J
MS (1205773019 S)					Source: 672037015 Prepared: 06/26/2024 Analyzed: 06/27/2024					
Hexavalent Chromium	2.54	0.293	mg/kg dry	2.93	0.230	78.8	75-125			
DUP (1205773020 D)					Source: 672050003 Prepared: 06/26/2024 Analyzed: 06/27/2024					
Hexavalent Chromium	0.312	0.347	mg/kg dry		0.273		0-50	13.4	50	J
MS (1205773021 S)					Source: 672050003 Prepared: 06/26/2024 Analyzed: 06/27/2024					
Hexavalent Chromium	3.28	0.348	mg/kg dry	3.48	0.273	86.5	75-125			
ILCS (1205773022-ILCS)					Prepared: 06/26/2024 Analyzed: 06/27/2024					
Hexavalent Chromium	7.92	0.375	mg/kg	7.54		105	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 - Wheeler 1-21A

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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