

December 14, 2022

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Miller X 31-03,06 O SA

Project Number - [none]

Attached are your analytical results for KMG - Miller X 31-03,06 O SA received by Origins Laboratory, Inc. November 23, 2022. This project is associated with Origins project number Y211580-01.

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

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

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

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

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

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



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW1-B01@6'	Y211580-01	Soil	November 23, 2022 12:00	11/23/2022 15:34
PW1-N01@3'	Y211580-02	Soil	November 23, 2022 12:02	11/23/2022 15:34
AST1-B02@3"	Y211580-03	Soil	November 23, 2022 12:12	11/23/2022 15:34
AST2-B02@3"	Y211580-04	Soil	November 23, 2022 12:16	11/23/2022 15:34
SEP1-B01@3'	Y211580-05	Soil	November 23, 2022 12:20	11/23/2022 15:34
SEP1-B02@3'	Y211580-06	Soil	November 23, 2022 12:22	11/23/2022 15:34
BG-01@3'	Y211580-07	Soil	November 23, 2022 12:25	11/23/2022 15:34
BG-01@6'	Y211580-08	Soil	November 23, 2022 12:27	11/23/2022 15:34
BG-02@3'	Y211580-09	Soil	November 23, 2022 12:30	11/23/2022 15:34
BG-02@6'	Y211580-10	Soil	November 23, 2022 12:32	11/23/2022 15:34

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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Initial page 1 of 1

4211580

Project Manager: Andy Sagen

Project Name: Miller X 31-03,06 O SA

Project Number:

Samples Collected By: Logan Molson

Method of Delivery (Circle One): Hand Delivered ☒ Email ☐ Labeled Box Drop ☐ Service Center Drop ☐ FedEx ☐ UPS ☐

Client: Ory/Tasman

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

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

Email Address: Ory/Tasman distribution list

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis	Notes
PW1-B0106'	11-23-22	12:00	2	X	Soil	X X X X X	Full 915 added to 1
PW1-N0103'	1202		1				As 100% + muffle
AST1-B0203"	1212		1				added to B0
AST2-B0203"	1216		1				Samples per file
SEP1-B0103'	1220		1				email from Brandi
SEP2-B0203'	1222		1				on 11/29/12
B0-0103'	1225		1				
B0-0106'	1227		1				
B0-0203'	1230		1				
B0-0206'	1232		1				
Relinquished By: gm	Date: 11-23-22	Time: 1334		Received By: EHS	Date: 12/3/22	Time: 1334	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>
Relinquished By:	Date:	Time:		Received By:	Date:	Time:	

Date Results Needed

9/6

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4211580 Client: Tasman
Client Project ID: Miller X 31-03,06 O SA

Checklist Completed by: EHS/TOM Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 11/23/22 Airbill #: NA

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

Cooler Number/Temperature: 1 4.6 °C (Describe) _____ °C

Thermometer ID: T004

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

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

Reviewed by (Project Manager) JP Date/Time Reviewed 11/23/22

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

PW1-B01@6'

11/23/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211580-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.144	0.0991	mg/L	1	B2K2803	11/28/2022	11/29/2022
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	476	25.0	mg/kg	1	B2K2326	11/23/2022	11/23/2022
Residual Range Organics (C28-C40)	219	100	"	"	"	"	"

Surrogate: o-Terphenyl	86.9 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0282	0.00200	mg/kg	1	B2K2340	11/23/2022	11/24/2022
1,3,5-Trimethylbenzene	0.0111	0.00200	"	"	"	"	"
Benzene	ND	0.00200	"	"	"	"	" U
Ethylbenzene	0.00312	0.00200	"	"	"	"	"
Naphthalene	0.00452	0.00380	"	"	"	"	"
Toluene	0.00996	0.00200	"	"	"	"	"
Xylenes, total	0.0340	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	4.02	0.200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	94.6 %	70-130	"	"	"

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Jen Pellegrini, Project Manager

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Project: KMG - Miller X 31-03,06 O SA

PW1-B01@6'

11/23/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211580-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	103 %	70-130	B2K23 40	11/23/2022	11/24/2022
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Metals by Saturated Paste by EPA 6010

Calcium	21.9	0.499	meq/L	10	[CALC]	11/29/2022	11/30/2022
Magnesium	16.2	0.823	"	"	"	"	"
Sodium	36.8	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.0654	0.0101	0.0101	mg/Kg	5	L651026	11/29/2022	11/30/2022
2-Methylnaphthalene	0.0731	0.0101	0.0101	"	"	"	"	"
Acenaphthene	0.0495	0.00335	0.00335	"	"	"	"	"
Anthracene	0.00483	0.00335	0.00335	"	"	"	"	"
Benzo(a)anthracene	0.0149	0.00335	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.00335	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00335	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	0.00403	0.00335	0.00335	"	"	"	"	"
Chrysene	0.0466	0.00335	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00335	0.00335	"	"	"	"	"
Fluoranthene	0.00401	0.00335	0.00335	"	"	"	"	"
Fluorene	0.137	0.00335	0.00335	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00335	0.00335	"	"	"	"	"

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Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

PW1-B01@6'

11/23/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y211580-01 (Soil)

PAH by 8270D SIM

Pyrene	0.0219	0.00335	0.00335	mg/Kg	5	L651026	11/29/2022	11/30/2022
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Surrogate: 2-Fluorobiphenyl	40.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	44.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	36.1 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.00	pH Units	1	B2K2912	11/29/2022	11/30/2022
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SAR by 20B Saturated Paste

SAR	8.43	SAR	1	B2K2906	11/29/2022	11/30/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.35	0.00500	mmhos/cm	1	B2K2912	11/29/2022	11/30/2022
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Table 915 metals by EPA 6020B

Arsenic	2.58	0.0940	mg/kg	10	B2K2810	11/28/2022	11/28/2022
Barium	73.8	9.40	"	"	"	"	"
Cadmium	0.108	0.0940	"	"	"	"	"
Copper	ND	9.40	"	"	"	"	" U

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Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

PW1-B01@6'

11/23/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211580-01 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	9.40	mg/kg	10	B2K2810	11/28/2022	11/28/2022	U
Nickel	ND	9.40	"	"	"	"	"	U
Selenium	ND	0.0940	"	"	"	"	"	U
Silver	ND	0.0940	"	"	"	"	"	U
Zinc	ND	94.0	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.517	mg/Kg	1	L651177	11/23/2022	11/30/2022
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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

PW1-N01@3'

11/23/2022 12:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211580-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0985	mg/L	1	B2K2803	11/28/2022	11/29/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2K2326	11/23/2022	11/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.3 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2K2340	11/23/2022	11/24/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

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Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

PW1-N01@3'

11/23/2022 12:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211580-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130				B2K23 40	11/23/2022	11/24/2022
Surrogate: Toluene-d8	93.2 %	70-130				"	"	"
Surrogate: 4-Bromofluorobenzene	90.5 %	70-130				"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.36	0.499	meq/L	10	[CALC]	11/29/2022	11/30/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.632	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.36		pH Units	1	B2K2912	11/29/2022	11/30/2022
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SAR by 20B Saturated Paste

SAR	0.677		SAR	1	B2K2906	11/29/2022	11/30/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.335	0.00500	mmhos/cm	1	B2K2912	11/29/2022	11/30/2022
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Tasman Geosciences
6855 West 119th Avenue
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Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

AST1-B02@3"

11/23/2022 12:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y211580-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0995	mg/L	1	B2K2803	11/28/2022	11/29/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2K2326	11/23/2022	11/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.0 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2K2340	11/23/2022	11/24/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

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Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

AST1-B02@3"

11/23/2022 12:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y211580-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	B2K23 40	11/23/2022	11/24/2022
Surrogate: Toluene-d8	94.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	91.5 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.60	0.499	meq/L	10	[CALC]	11/29/2022	11/30/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.34	pH Units	1	B2K2912	11/29/2022	11/30/2022
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SAR by 20B Saturated Paste

SAR	0.282	SAR	1	B2K2906	11/29/2022	11/30/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.272	0.00500	mmhos/cm	1	B2K2912	11/29/2022	11/30/2022
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6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

AST2-B02@3"

11/23/2022 12:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y211580-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0984	mg/L	1	B2K2803	11/28/2022	11/29/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2K2326	11/23/2022	11/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2K2340	11/23/2022	11/24/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

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Tasman Geosciences
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Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

AST2-B02@3"

11/23/2022 12:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y211580-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	B2K23 40	11/23/2022	11/24/2022
Surrogate: Toluene-d8	94.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.6 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	11/29/2022	11/30/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.46	pH Units	1	B2K2912	11/29/2022	11/30/2022
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SAR by 20B Saturated Paste

SAR	0.192	SAR	1	B2K2906	11/29/2022	11/30/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0814	0.00500	mmhos/cm	1	B2K2912	11/29/2022	11/30/2022
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

SEP1-B01@3'
11/23/2022 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211580-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0990	mg/L	1	B2K2803	11/28/2022	11/29/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2K2326	11/23/2022	11/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.8 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2K2340	11/23/2022	11/24/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

SEP1-B01@3'

11/23/2022 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211580-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	B2K23 40	11/23/2022	11/24/2022
Surrogate: Toluene-d8	94.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	89.6 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.16	0.499	meq/L	10	[CALC]	11/29/2022	11/30/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.01	pH Units	1	B2K2912	11/29/2022	11/30/2022
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SAR by 20B Saturated Paste

SAR	0.123	SAR	1	B2K2906	11/29/2022	11/30/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.221	0.00500	mmhos/cm	1	B2K2912	11/29/2022	11/30/2022
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

SEP1-B02@3'
11/23/2022 12:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211580-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.355	0.0982	mg/L	1	B2K2803	11/28/2022	11/29/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2K2326	11/23/2022	11/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.8 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2K2340	11/23/2022	11/24/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

SEP1-B02@3'

11/23/2022 12:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211580-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	B2K23 40	11/23/2022	11/24/2022
Surrogate: Toluene-d8	94.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	90.6 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.49	0.499	meq/L	10	[CALC]	11/29/2022	11/30/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.29	pH Units	1	B2K2912	11/29/2022	11/30/2022
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SAR by 20B Saturated Paste

SAR	0.347	SAR	1	B2K2906	11/29/2022	11/30/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.294	0.00500	mmhos/cm	1	B2K2912	11/29/2022	11/30/2022
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

BG-01@3'

11/23/2022 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211580-07 (Soil)

Boron (DTPA Sorbitol)

Boron	2.10	0.0993	mg/L	1	B2K2803	11/28/2022	11/29/2022
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Metals by Saturated Paste by EPA 6010

Calcium	21.5	0.499	meq/L	10	[CALC]	11/29/2022	11/30/2022
Magnesium	31.6	0.823	"	"	"	"	"
Sodium	83.8	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.31		pH Units	1	B2K2912	11/29/2022	11/30/2022
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SAR by 20B Saturated Paste

SAR	16.3		SAR	1	B2K2906	11/29/2022	11/30/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	9.84	0.00500	mmhos/cm	1	B2K2912	11/29/2022	11/30/2022
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Table 915 metals by EPA 6020B

Arsenic	4.58	0.0948	mg/kg	10	B2K2810	11/28/2022	11/28/2022
Barium	315	9.48	"	"	"	"	"
Cadmium	0.155	0.0948	"	"	"	"	"
Copper	9.71	9.48	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

BG-01@3'

11/23/2022 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211580-07 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	9.48	mg/kg	10	B2K2810	11/28/2022	11/28/2022	U
Nickel	12.4	9.48	"	"	"	"	"	
Selenium	0.173	0.0948	"	"	"	"	"	
Silver	ND	0.0948	"	"	"	"	"	U
Zinc	ND	94.8	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.504	mg/Kg	1	L651360	11/23/2022	12/01/2022
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

BG-01@6'

11/23/2022 12:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211580-08 (Soil)

Boron (DTPA Sorbitol)

Boron	1.25	0.0985	mg/L	1	B2K2803	11/28/2022	11/29/2022
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Metals by Saturated Paste by EPA 6010

Calcium	23.4	0.499	meq/L	10	[CALC]	11/29/2022	11/30/2022
Magnesium	18.7	0.823	"	"	"	"	"
Sodium	38.1	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.50		pH Units	1	B2K2912	11/29/2022	11/30/2022
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SAR by 20B Saturated Paste

SAR	8.31		SAR	1	B2K2906	11/29/2022	11/30/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.23	0.00500	mmhos/cm	1	B2K2912	11/29/2022	12/01/2022
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Table 915 metals by EPA 6020B

Arsenic	3.68	0.0949	mg/kg	10	B2K2810	11/28/2022	11/28/2022
Barium	135	9.49	"	"	"	"	"
Cadmium	0.168	0.0949	"	"	"	"	"
Copper	ND	9.49	"	"	"	"	" U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

BG-01@6'

11/23/2022 12:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211580-08 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	9.49	mg/kg	10	B2K2810	11/28/2022	11/28/2022	U
Nickel	10.8	9.49	"	"	"	"	"	
Selenium	0.149	0.0949	"	"	"	"	"	
Silver	ND	0.0949	"	"	"	"	"	U
Zinc	ND	94.9	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L651360	11/23/2022	12/01/2022
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

BG-02@3'

11/23/2022 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y211580-09 (Soil)

Boron (DTPA Sorbitol)

Boron	1.32	0.0997	mg/L	1	B2K2804	11/28/2022	11/29/2022
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Metals by Saturated Paste by EPA 6010

Calcium	18.6	0.499	meq/L	10	[CALC]	11/29/2022	11/30/2022
Magnesium	25.9	0.823	"	"	"	"	"
Sodium	15.1	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.85		pH Units	1	B2K2913	11/29/2022	11/30/2022
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SAR by 20B Saturated Paste

SAR	3.19		SAR	1	B2K2907	11/29/2022	11/30/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.66	0.00500	mmhos/cm	1	B2K2913	11/29/2022	11/30/2022
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Table 915 metals by EPA 6020B

Arsenic	4.45	0.0950	mg/kg	10	B2K2810	11/28/2022	11/28/2022
Barium	104	9.50	"	"	"	"	"
Cadmium	0.129	0.0950	"	"	"	"	"
Copper	ND	9.50	"	"	"	"	"

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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

BG-02@3'

11/23/2022 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211580-09 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	9.50	mg/kg	10	B2K2810	11/28/2022	11/28/2022	U
Nickel	ND	9.50	"	"	"	"	"	U
Selenium	0.133	0.0950	"	"	"	"	"	
Silver	ND	0.0950	"	"	"	"	"	U
Zinc	ND	95.0	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.253	0.519	mg/Kg	1	L651360	11/23/2022	12/01/2022
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

BG-02@6'

11/23/2022 12:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211580-10 (Soil)

Boron (DTPA Sorbitol)

Boron	2.11	0.0996	mg/L	1	B2K2804	11/28/2022	11/29/2022
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Metals by Saturated Paste by EPA 6010

Calcium	20.7	0.499	meq/L	10	[CALC]	11/29/2022	11/30/2022
Magnesium	27.2	0.823	"	"	"	"	"
Sodium	43.6	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.94		pH Units	1	B2K2913	11/29/2022	11/30/2022
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SAR by 20B Saturated Paste

SAR	8.91		SAR	1	B2K2907	11/29/2022	11/30/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	7.32	0.00500	mmhos/cm	1	B2K2913	11/29/2022	11/30/2022
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Table 915 metals by EPA 6020B

Arsenic	4.38	0.0961	mg/kg	10	B2K2810	11/28/2022	11/28/2022
Barium	154	9.61	"	"	"	"	"
Cadmium	0.175	0.0961	"	"	"	"	"
Copper	10.7	9.61	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

BG-02@6'

11/23/2022 12:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211580-10 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	9.61	mg/kg	10	B2K2810	11/28/2022	11/28/2022	U
Nickel	12.7	9.61	"	"	"	"	"	
Selenium	0.183	0.0961	"	"	"	"	"	
Silver	ND	0.0961	"	"	"	"	"	U
Zinc	ND	96.1	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L651360	11/23/2022	12/01/2022
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2K2326 - EPA 3580										
Blank (B2K2326-BLK1)					Prepared: 11/23/2022 Analyzed: 11/23/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		87.3	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2K2326 - EPA 3580

LCS (B2K2326-BS1)

Prepared: 11/23/2022 Analyzed: 11/23/2022

Diesel (C10-C28)	1190	50.0	mg/kg	1000		119	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2K2326 - EPA 3580

Matrix Spike (B2K2326-MS1)		Source: Y211561-01			Prepared: 11/23/2022 Analyzed: 11/23/2022					
Diesel (C10-C28)	1060	50.0	mg/kg	1000	ND	106	70-130			
Residual Range Organics (C28-C40)	901	200	"	1000	ND	90.1	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.6	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2K2326 - EPA 3580										
Matrix Spike Dup (B2K2326-MSD1)		Source: Y211561-01			Prepared: 11/23/2022 Analyzed: 11/23/2022					
Diesel (C10-C28)	990	50.0	mg/kg	1000	ND	99.0	70-130	7.31	35	
Residual Range Organics (C28-C40)	865	200	"	1000	ND	86.5	70-130	4.16	35	
Surrogate: o-Terphenyl	41		"	49.8		83.3	50-150			

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Jen Pellegrini, Project Manager

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Tasman Geosciences
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Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2K2340 - EPA 5030 (soil)										
Blank (B2K2340-BLK1)					Prepared: 11/23/2022 Analyzed: 11/23/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.1	70-130			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2K2340 - EPA 5030 (soil)

LCS (B2K2340-BS1)

Prepared: 11/23/2022 Analyzed: 11/23/2022

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Benzene	0.112	0.00200	"	0.100		112	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.105	0.00380	"	0.100		105	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
o-Xylene	0.100	0.00200	"	0.100		100	70-130			
m,p-Xylene	0.205	0.00400	"	0.200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.3	70-130			

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Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2K2340 - EPA 5030 (soil)

Matrix Spike (B2K2340-MS1)		Source: Y211575-01			Prepared: 11/23/2022 Analyzed: 11/23/2022					
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Benzene	0.106	0.00200	"	0.100	ND	106	70-130			
Ethylbenzene	0.0970	0.00200	"	0.100	ND	97.0	70-130			
Naphthalene	0.112	0.00380	"	0.100	0.00112	111	70-130			
Toluene	0.103	0.00200	"	0.100	ND	103	70-130			
o-Xylene	0.0955	0.00200	"	0.100	ND	95.5	70-130			
m,p-Xylene	0.193	0.00400	"	0.200	0.00184	95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.2	70-130			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2K2340 - EPA 5030 (soil)

Matrix Spike Dup (B2K2340-MSD1)		Source: Y211575-01			Prepared: 11/23/2022 Analyzed: 11/23/2022					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130	1.84	20	
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	0.790	20	
Benzene	0.106	0.00200	"	0.100	ND	106	70-130	0.396	20	
Ethylbenzene	0.0969	0.00200	"	0.100	ND	96.9	70-130	0.0825	20	
Naphthalene	0.111	0.00380	"	0.100	0.00112	110	70-130	0.575	20	
Toluene	0.103	0.00200	"	0.100	ND	103	70-130	0.738	20	
o-Xylene	0.0957	0.00200	"	0.100	ND	95.7	70-130	0.251	20	
m,p-Xylene	0.190	0.00400	"	0.200	0.00184	94.2	70-130	1.32	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.5	70-130			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2K2810 - EPA 3050B

Blank (B2K2810-BLK1)

Prepared: 11/28/2022 Analyzed: 11/28/2022

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

LCS (B2K2810-BS1)

Prepared: 11/28/2022 Analyzed: 11/28/2022

Arsenic	0.0528	0.000100	mg/kg	0.0500		106	80-120
Barium	5.06	0.0100	"	5.00		101	80-120
Cadmium	0.0523	0.000100	"	0.0500		105	80-120
Copper	0.545	0.0100	"	0.500		109	80-120
Lead	0.0522	0.0100	"	0.0500		104	80-120
Nickel	0.0546	0.0100	"	0.0500		109	80-120
Selenium	0.0511	0.000100	"	0.0500		102	80-120
Silver	0.0542	0.000100	"	0.0500		108	80-120
Zinc	0.531	0.100	"	0.500		106	80-120

Matrix Spike (B2K2810-MS1)

Source: Y211580-01

Prepared: 11/28/2022 Analyzed: 11/28/2022

Origins Laboratory, Inc.



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Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2K2810 - EPA 3050B

Matrix Spike (B2K2810-MS1)		Source: Y211580-01			Prepared: 11/28/2022 Analyzed: 11/28/2022					
Arsenic	7.35	0.0942	mg/kg	4.71	2.58	101	75-125			
Barium	548	9.42	"	471	73.8	101	75-125			
Cadmium	5.03	0.0942	"	4.71	0.108	105	75-125			
Copper	55.7	9.42	"	47.1	6.71	104	75-125			
Lead	11.5	9.42	"	4.71	6.98	95.9	75-125			
Nickel	11.7	9.42	"	4.71	8.12	77.1	75-125			
Selenium	4.34	0.0942	"	4.71	0.0667	90.8	75-125			
Silver	5.04	0.0942	"	4.71	0.0291	106	75-125			
Zinc	80.2	94.2	"	47.1	30.8	105	75-125			U
Matrix Spike Dup (B2K2810-MSD1)		Source: Y211580-01			Prepared: 11/28/2022 Analyzed: 11/28/2022					
Arsenic	7.32	0.0955	mg/kg	4.78	2.58	99.4	75-125	0.373	20	
Barium	556	9.55	"	478	73.8	101	75-125	1.30	20	
Cadmium	5.12	0.0955	"	4.78	0.108	105	75-125	1.72	20	
Copper	56.5	9.55	"	47.8	6.71	104	75-125	1.50	20	
Lead	11.2	9.55	"	4.78	6.98	88.5	75-125	2.54	20	
Nickel	11.2	9.55	"	4.78	8.12	65.4	75-125	4.45	20	QM-07
Selenium	4.44	0.0955	"	4.78	0.0667	91.6	75-125	2.23	20	
Silver	5.11	0.0955	"	4.78	0.0291	106	75-125	1.48	20	
Zinc	76.1	95.5	"	47.8	30.8	95.0	75-125	5.15	20	U

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2K2803 - DTPA Sorbitol Preparation

Blank (B2K2803-BLK1)

Prepared: 11/28/2022 Analyzed: 11/29/2022

Boron	ND	0.100	mg/L							U
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Duplicate (B2K2803-DUP1)

Source: Y211561-01

Prepared: 11/28/2022 Analyzed: 11/29/2022

Boron	0.0685	0.0996	mg/L		0.0547			22.4	50	U
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Batch B2K2804 - DTPA Sorbitol Preparation

Blank (B2K2804-BLK1)

Prepared: 11/28/2022 Analyzed: 11/29/2022

Boron	ND	0.100	mg/L							U
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Duplicate (B2K2804-DUP1)

Source: Y211551-01

Prepared: 11/28/2022 Analyzed: 11/29/2022

Boron	3.97	0.0992	mg/L		4.16			4.67	50	
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Batch B2K2906 - Saturated Paste Metals

Blank (B2K2906-BLK1)

Prepared: 11/29/2022 Analyzed: 11/30/2022

SAR	0.00		SAR							U
Calcium PPM	ND	10.0	mg/L							U
Magnesium PPM	ND	10.0	"							U
Sodium PPM	ND	10.0	"							U

Duplicate (B2K2906-DUP1)

Source: Y211561-01

Prepared: 11/29/2022 Analyzed: 11/30/2022

Calcium PPM	26.6	10.0	mg/L		29.3			9.81	50	
SAR	0.00		SAR		1.27			200	200	U
Magnesium PPM	7.37	10.0	mg/L		8.04			8.68	50	U
Sodium PPM	28.9	10.0	"		30.0			4.00	50	

Origins Laboratory, Inc.



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Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2K2907 - Saturated Paste Metals										
Blank (B2K2907-BLK1)					Prepared: 11/29/2022 Analyzed: 11/30/2022					
Calcium PPM	ND	10.0	mg/L							U
SAR	0.00		SAR							U
Magnesium PPM	ND	10.0	mg/L							U
Sodium PPM	ND	10.0	"							U
Duplicate (B2K2907-DUP1)					Source: Y211545-14		Prepared: 11/29/2022 Analyzed: 11/30/2022			
SAR	0.00		SAR		1.73			200	200	U
Calcium PPM	19.2	10.0	mg/L		19.4			1.35	50	
Magnesium PPM	12.2	10.0	"		12.2			0.246	50	
Sodium PPM	39.1	10.0	"		39.4			0.792	50	

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Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2K2912 - Saturated Paste pH/EC

Blank (B2K2912-BLK1)

Prepared: 11/29/2022 Analyzed: 11/30/2022

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B2K2912-DUP1)

Source: Y211561-01

Prepared: 11/29/2022 Analyzed: 11/30/2022

Specific Conductance (EC)	0.313	0.00500	mmhos/cm	0.350			11.2	25		
pH	7.26		pH Units	7.87			8.06	25		

Batch B2K2913 - Saturated Paste pH/EC

Blank (B2K2913-BLK1)

Prepared: 11/29/2022 Analyzed: 11/30/2022

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B2K2913-DUP1)

Source: Y211545-14

Prepared: 11/29/2022 Analyzed: 11/30/2022

pH	6.80		pH Units	7.98			16.0	25		
Specific Conductance (EC)	0.511	0.00500	mmhos/cm	0.402			23.8	25		

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Jen Pellegrini, Project Manager

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6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L651026 - 3550B

MSD (L 95253-MSD-L651026)		Source: 95253			Prepared: 11/29/2022 Analyzed: 11/30/2022					
Benzo(k)fluoranthene	0.0628	0.00067	mg/Kg	0.163	<0.000437	38.5	30-130	20.9	30	
Pyrene	0.0755	0.00067	"	0.163	<0.000643	46.3	30-130	13.8	30	
Indeno(1,2,3-cd)pyrene	0.0803	0.00067	"	0.163	<0.000627	49.2	30-130	19.8	30	
Fluorene	0.0757	0.00067	"	0.163	<0.000286	46.4	30-130	12.5	30	
Fluoranthene	0.0771	0.00067	"	0.163	<0.000394	47.3	30-130	14.6	30	
Dibenz(a,h)anthracene	0.0924	0.00067	"	0.163	<0.000614	56.6	30-130	23.4	30	
Chrysene	0.0774	0.00067	"	0.163	<0.000624	47.4	30-130	14.8	30	
Benzo(a)pyrene	0.078	0.00067	"	0.163	<0.000468	47.8	30-130	12.1	30	
Benzo(a)anthracene	0.0794	0.00067	"	0.163	<0.000493	48.7	30-130	14.3	30	
Anthracene	0.0773	0.00067	"	0.163	<0.000334	47.4	30-130	12.3	30	
Acenaphthene	0.0754	0.00067	"	0.163	<0.000304	46.2	30-130	13.7	30	
2-Methylnaphthalene	0.0712	0.00201	"	0.163	<0.00194	43.6	30-130	13.1	30	
Benzo(b)fluoranthene	0.0639	0.00067	"	0.163	<0.000585	39.2	30-130	15.4	30	
1-Methylnaphthalene	0.0734	0.00201	"	0.163	<0.00109	45	30-130	13.2	30	
Surrogate: 2-Fluorobiphenyl	44		"	0.327	157	44	33-115			
Surrogate: Nitrobenzene-d5	47		"	0.327	167	47	29-110			
Surrogate: 4-Terphenyl-d14	54.1		"	0.327	195	54.1	33-122			

MS (L 95253-MS-L651026)		Source: 95253			Prepared: 11/29/2022 Analyzed: 11/30/2022					
Benzo(k)fluoranthene	0.0775	0.00067	mg/Kg	0.163	<0.000437	47.5	30-130			
Chrysene	0.0898	0.00067	"	0.163	<0.000624	55	30-130			
Fluoranthene	0.0893	0.00067	"	0.163	<0.000394	54.7	30-130			
Fluorene	0.0858	0.00067	"	0.163	<0.000286	52.6	30-130			
Indeno(1,2,3-cd)pyrene	0.098	0.00067	"	0.163	<0.000627	60.1	30-130			
Pyrene	0.0867	0.00067	"	0.163	<0.000643	53.1	30-130			
Benzo(b)fluoranthene	0.0746	0.00067	"	0.163	<0.000585	45.7	30-130			
Benzo(a)anthracene	0.0917	0.00067	"	0.163	<0.000493	56.2	30-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
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Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L651026 - 3550B

MS (L 95253-MS-L651026)		Source: 95253			Prepared: 11/29/2022 Analyzed: 11/30/2022					
Anthracene	0.0875	0.00067	mg/Kg	0.163	<0.000334	53.6	30-130			
Acenaphthene	0.0865	0.00067	"	0.163	<0.000304	53	30-130			
2-Methylnaphthalene	0.0812	0.00201	"	0.163	<0.00194	49.8	30-130			
1-Methylnaphthalene	0.0838	0.00201	"	0.163	<0.00109	51.4	30-130			
Benzo(a)pyrene	0.0881	0.00067	"	0.163	<0.000468	54	30-130			
Dibenz(a,h)anthracene	0.117	0.00067	"	0.163	<0.000614	71.7	30-130			
Surrogate: Nitrobenzene-d5	54.4		"	0.327	167	54.4	29-110			
Surrogate: 4-Terphenyl-d14	62.6		"	0.327	195	62.6	33-122			
Surrogate: 2-Fluorobiphenyl	51.3		"	0.327	157	51.3	33-115			

LCS (LCS-L651026)		Prepared: 11/29/2022 Analyzed: 11/30/2022								
Benzo(a)anthracene	0.098	0.00067	mg/Kg	0.167		58.6	30-130			
Benzo(a)pyrene	0.0991	0.00067	"	0.167		59.3	30-130			
Benzo(k)fluoranthene	0.0769	0.00067	"	0.167		46	30-130			
Dibenz(a,h)anthracene	0.11	0.00067	"	0.167		65.8	30-130			
Fluoranthene	0.107	0.00067	"	0.167		64	30-130			
Anthracene	0.0922	0.00067	"	0.167		55.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0934	0.00067	"	0.167		55.9	30-130			
Benzo(b)fluoranthene	0.0847	0.00067	"	0.167		50.7	30-130			
Pyrene	0.105	0.00067	"	0.167		62.8	30-130			
Fluorene	0.0926	0.00067	"	0.167		55.4	30-130			
2-Methylnaphthalene	0.0932	0.00201	"	0.167		55.8	30-130			
1-Methylnaphthalene	0.0967	0.00201	"	0.167		57.9	30-130			
Chrysene	0.0977	0.00067	"	0.167		58.5	30-130			
Acenaphthene	0.0893	0.00067	"	0.167		53.4	30-130			
Surrogate: Nitrobenzene-d5	65.1		"	0.333		65.1	29-110			
Surrogate: 4-Terphenyl-d14	66.3		"	0.333		66.3	33-122			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L651026 - 3550B										
LCS (LCS-L651026)					Prepared: 11/29/2022 Analyzed: 11/30/2022					
Surrogate: 2-Fluorobiphenyl	61.5		mg/Kg	0.333		61.5	33-115			
LRB (LRB-L651026)					Prepared: 11/29/2022 Analyzed: 11/30/2022					
Fluoranthene	ND	0.00067	mg/Kg				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Surrogate: Nitrobenzene-d5	55.2		"	0.333		55.2	29-110			
Surrogate: 4-Terphenyl-d14	64.8		"	0.333		64.8	33-122			
Surrogate: 2-Fluorobiphenyl	56.1		"	0.333		56.1	33-115			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L651360 -										
DUP (L 95449-DUP)		Source: 95449			Prepared: Analyzed: 12/01/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 95449-MS)		Source: 95449			Prepared: Analyzed: 12/01/2022					
Chromium, Hexavalent	33.4	2.57	mg/Kg	41.1	< 0.245	81	75-125			
MSD (L 95449-MSD)		Source: 95449			Prepared: Analyzed: 12/01/2022					
Chromium, Hexavalent	581	51.8	mg/Kg	687	<25.3	85	75-125			
LCS (LCS)					Prepared: Analyzed: 12/01/2022					
Chromium, Hexavalent	6.3	0.5	mg/Kg	8		79	75-125			
LRB (LRB)					Prepared: Analyzed: 12/01/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L651177 -										
DUP (L 95303-DUP)		Source: 95303			Prepared: Analyzed: 11/30/2022					
Chromium, Hexavalent	ND	0.507	mg/Kg		<0.507	-		0	20	
MS (L 95303-MS)		Source: 95303			Prepared: Analyzed: 11/30/2022					
Chromium, Hexavalent	36.2	2.5	mg/Kg	38.9	< 0.244	93	75-125			
MSD (L 95303-MSD)		Source: 95303			Prepared: Analyzed: 11/30/2022					
Chromium, Hexavalent	571	51.1	mg/Kg	672	<24.9	85	75-125			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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December 19, 2022

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Miller X 31-03,06 O SA

Project Number - [none]

Attached are your analytical results for KMG - Miller X 31-03,06 O SA received by Origins Laboratory, Inc. December 05, 2022. This project is associated with Origins project number Y212088-01.

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

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

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

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

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

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



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW1-B02@9'	Y212088-01	Soil	December 5, 2022 13:45	12/05/2022 17:10
PW1-N02@8'	Y212088-02	Soil	December 5, 2022 13:46	12/05/2022 17:10
PW1-S02@8'	Y212088-03	Soil	December 5, 2022 13:47	12/05/2022 17:10
PW1-E02@8'	Y212088-04	Soil	December 5, 2022 13:48	12/05/2022 17:10
PW1-W02@8'	Y212088-05	Soil	December 5, 2022 13:49	12/05/2022 17:10

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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4212088

page 1 of 1

Impacted

Project Manager: Andy Sagen

Project Name: Miller X 31-03,06

Project Number:

Samples Collected By: [Signature]

Method of Delivery: Other

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

Email Address: [Redacted]

Client: [Redacted]

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

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis	Notes
				Unpreserved	HCl	HNO ₃	Groundwater	Soil		
DW1-B02081	12-05-02	13:45	2	Y			X		XY X	Remainder of sample 915 on pad
DW1-N02081		13:46	1							
DW1-S02081		13:47	1							
DW1-E02081		13:48	1							
DW1-N02081		13:49	1							
pH added to 7										
all samples per Eric's email on 12/14/02										
Relinquished By: [Signature]	Date: 12-05-02	Time: 17:10	Received By: EHS	Date: 12-12-02	Time: 17:10	Turnaround Time: Same Day X	24 Hr <input type="checkbox"/>	48 Hr <input type="checkbox"/>	72 Hr <input type="checkbox"/>	Standard <input type="checkbox"/>

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

5-6 Date Results Needed

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 - Miller X 31-03,06 O SA

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

Sample Receipt Checklist

Origins Work Order: 421088 Client: Tasman
Client Project ID: Miller X 31-03,06
Checklist Completed by: JH/DE Shipped Via: 110
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 12/05/22 Airbill #: nila
Matrix(s) Received: (Check all that apply): X Soil/Solid Water Other: _____
(Describe)
Cooler Number/Temperature: 1, 56 c _____ °C _____ °C
Thermometer ID: TC001

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

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

[Signature]
Reviewed by (Project Manager)

12/05/2022
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

PW1-B02@9'
12/5/2022 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212088-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L0524	ADM	12/05/2022	12/06/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 89.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2L0525	ZZZ	12/05/2022	12/06/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
Surrogate: Toluene-d8 91.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 88.7 % 70-130 " " "

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L653240		12/12/2022	12/12/2022	
2-Methylnaphthalene	ND	0.00201	"	"	"		"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

PW1-B02@9'
12/5/2022 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC. Y212088-01 (Soil)

PAH by 8270D SIM

Acenaphthene	ND	0.00067	mg/Kg	1	L653240		12/12/2022	12/12/2022	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00201	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	34.5 %	33-115		"	"	"
Surrogate: 4-Terphenyl-d14	40.3 %	33-122		"	"	"
Surrogate: Nitrobenzene-d5	35.2 %	29-110		"	"	"

pH in Soil by 9045D

pH	7.87	pH Units	1	B2L1518	HJD	12/15/2022	12/16/2022
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

PW1-N02@8'
12/5/2022 1:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212088-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L0524	ADM	12/05/2022	12/06/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 84.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2L0525	ZZZ	12/05/2022	12/06/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
Surrogate: Toluene-d8 90.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 88.9 % 70-130 " " "

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L653240		12/12/2022	12/12/2022	
2-Methylnaphthalene	ND	0.00201	"	"	"		"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

PW1-N02@8'
12/5/2022 1:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC. Y212088-02 (Soil)

PAH by 8270D SIM

Acenaphthene	ND	0.00067	mg/Kg	1	L653240		12/12/2022	12/12/2022	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00201	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	38.7 %	33-115		"	"	"
Surrogate: 4-Terphenyl-d14	49.5 %	33-122		"	"	"
Surrogate: Nitrobenzene-d5	44.1 %	29-110		"	"	"

pH in Soil by 9045D

pH	8.26	pH Units	1	B2L1518	HJD	12/15/2022	12/16/2022
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Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

PW1-S02@8'
12/5/2022 1:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212088-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L0524	ADM	12/05/2022	12/06/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 89.4 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0107	0.00200	mg/kg	1	B2L0525	ZZZ	12/05/2022	12/06/2022	
1,3,5-Trimethylbenzene	0.00436	0.00200	"	"	"	ZZZ	"	"	
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	0.00442	0.00200	"	"	"	ZZZ	"	"	
Xylenes, total	0.0170	0.00200	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	1.66	0.200	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "

Surrogate: Toluene-d8 90.7 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 94.5 % 70-130 " " "

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.0101	mg/Kg	5	L653445		12/13/2022	12/14/2022	
2-Methylnaphthalene	ND	0.0101	"	"	"		"	"	
Acenaphthene	0.0109	0.00335	"	"	"		"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

PW1-S02@8'
12/5/2022 1:47:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y212088-03 (Soil)

PAH by 8270D-SIM

Anthracene	0.00838	0.00335	mg/Kg	5	L653445		12/13/2022	12/14/2022
Benzo(a)anthracene	0.0477	0.00335	"	"	"		"	"
Benzo(a)pyrene	0.0476	0.00335	"	"	"		"	"
Benzo(b)fluoranthene	0.0501	0.00335	"	"	"		"	"
Benzo(k)fluoranthene	0.0329	0.00335	"	"	"		"	"
Chrysene	0.0687	0.00335	"	"	"		"	"
Dibenz(a,h)anthracene	0.0127	0.00335	"	"	"		"	"
Fluoranthene	0.0846	0.00335	"	"	"		"	"
Fluorene	0.0281	0.00335	"	"	"		"	"
Indeno(1,2,3-cd)pyrene	0.0264	0.00335	"	"	"		"	"
Naphthalene	ND	0.0101	"	"	"		"	"
Pyrene	0.0771	0.00335	"	"	"		"	"

Surrogate: 2-Fluorobiphenyl	55.5 %	33-115		"	"	"
Surrogate: 4-Terphenyl-d14	77.3 %	33-122		"	"	"
Surrogate: Nitrobenzene-d5	52.4 %	29-110		"	"	"

pH in Soil by 9045D

pH	7.57	pH Units	1	B2L1518	HJD	12/15/2022	12/16/2022
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

PW1-E02@8'
12/5/2022 1:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212088-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L0524	ADM	12/05/2022	12/06/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 86.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2L0525	ZZZ	12/05/2022	12/06/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
Surrogate: Toluene-d8 90.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 88.7 % 70-130 " " "

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L653445		12/13/2022	12/14/2022	
2-Methylnaphthalene	ND	0.00201	"	"	"		"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

PW1-E02@8'
12/5/2022 1:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y212088-04 (Soil)

PAH by 8270D-SIM

Acenaphthene	ND	0.00067	mg/Kg	1	L653445		12/13/2022	12/14/2022	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00201	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	53.2 %	33-115		"	"	"
Surrogate: 4-Terphenyl-d14	54.2 %	33-122		"	"	"
Surrogate: Nitrobenzene-d5	50.8 %	29-110		"	"	"

pH in Soil by 9045D

pH	8.24	pH Units	1	B2L1518	HJD	12/15/2022	12/16/2022
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Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

PW1-W02@8'
12/5/2022 1:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212088-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L0524	ADM	12/05/2022	12/06/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 85.3 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2L0525	ZZZ	12/05/2022	12/06/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
Surrogate: Toluene-d8 90.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 89.0 % 70-130 " " "

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L653445		12/13/2022	12/14/2022	
2-Methylnaphthalene	ND	0.00201	"	"	"		"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

PW1-W02@8'
12/5/2022 1:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC. Y212088-05 (Soil)

PAH by 8270D-SIM

Acenaphthene	ND	0.00067	mg/Kg	1	L653445		12/13/2022	12/14/2022	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00201	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	47.1 %	33-115		"	"	"
Surrogate: 4-Terphenyl-d14	57.7 %	33-122		"	"	"
Surrogate: Nitrobenzene-d5	46.8 %	29-110		"	"	"

pH in Soil by 9045D

pH	8.23	pH Units	1	B2L1518	HJD	12/15/2022	12/16/2022
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2L0524 - EPA 3580										
Blank (B2L0524-BLK1)					Prepared: 12/05/2022 Analyzed: 12/05/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		102	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2L0524 - EPA 3580

LCS (B2L0524-BS1)

Prepared: 12/05/2022 Analyzed: 12/05/2022

Diesel (C10-C28)	1140	50.0	mg/kg	1000		114	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.1	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2L0524 - EPA 3580

Matrix Spike (B2L0524-MS1)		Source: Y212084-01			Prepared: 12/05/2022 Analyzed: 12/05/2022					
Diesel (C10-C28)	1100	50.0	mg/kg	1000	ND	110	70-130			
Residual Range Organics (C28-C40)	996	200	"	1000	ND	99.6	70-130			
Surrogate: o-Terphenyl	44		"	49.8		89.3	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2L0524 - EPA 3580

Matrix Spike Dup (B2L0524-MSD1)		Source: Y212084-01			Prepared: 12/05/2022 Analyzed: 12/05/2022					
Diesel (C10-C28)	1150	50.0	mg/kg	1000	ND	115	70-130	3.66	35	
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130	5.16	35	
Surrogate: o-Terphenyl	45		"	49.8		90.0	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2L0525 - EPA 5030 (soil)										
Blank (B2L0525-BLK1)					Prepared: 12/05/2022 Analyzed: 12/05/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.6	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.3	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2L0525 - EPA 5030 (soil)										
LCS (B2L0525-BS1)					Prepared: 12/05/2022 Analyzed: 12/05/2022					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.114	0.00200	"	0.100		114	70-130			
Ethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Naphthalene	0.111	0.00380	"	0.100		111	70-130			
Toluene	0.109	0.00200	"	0.100		109	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.212	0.00400	"	0.200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.5	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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 B2L0525 - EPA 5030 (soil)										
LCS Dup (B2L0525-BSD1)					Prepared: 12/05/2022 Analyzed: 12/05/2022					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130	0.144	20	
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130	0.291	20	
Benzene	0.113	0.00200	"	0.100		113	70-130	0.984	20	
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130	0.611	20	
Naphthalene	0.111	0.00380	"	0.100		111	70-130	0.199	20	
Toluene	0.108	0.00200	"	0.100		108	70-130	1.33	20	
o-Xylene	0.101	0.00200	"	0.100		101	70-130	0.808	20	
m,p-Xylene	0.210	0.00400	"	0.200		105	70-130	1.23	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.4	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.3	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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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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 B2L1518 - Saturated Paste pH/EC

Duplicate (B2L1518-DUP1)		Source: Y212088-01		Prepared: 12/15/2022 Analyzed: 12/16/2022						
pH	7.89		pH Units		7.87			0.254	25	

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 - Miller X 31-03,06 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L653240 - 3550B

MSD (L 99787-MSD-L653240)		Source: 99787			Prepared: 12/12/2022 Analyzed: 12/12/2022					
Acenaphthene	0.0825	0.00067	mg/Kg	0.164	<0.000304	50.3	30-130	0.2	30	
Naphthalene	0.0801	0.00201	"	0.164	<0.00145	48.8	30-130	3.6	30	
Indeno(1,2,3-cd)pyrene	0.0949	0.00067	"	0.164	0.00231	56.4	30-130	23.9	30	
Fluoranthene	0.0925	0.00067	"	0.164	<0.000394	56.4	30-130	10.3	30	
Chrysene	0.0968	0.00067	"	0.164	0.000895	58.4	30-130	5.7	30	
Benzo(k)fluoranthene	0.079	0.00067	"	0.164	0.0015	47.2	30-130	23	30	
Benzo(b)fluoranthene	0.0738	0.00067	"	0.164	0.00126	44.2	30-130	21.9	30	
Benzo(a)pyrene	0.098	0.00067	"	0.164	0.00136	58.9	30-130	4.9	30	
1-Methylnaphthalene	0.0824	0.00201	"	0.164	<0.00109	50.2	30-130	8.6	30	
Anthracene	0.0854	0.00067	"	0.164	<0.000334	52	30-130	3.5	30	
2-Methylnaphthalene	0.0915	0.00201	"	0.164	<0.00194	55.7	30-130	4.6	30	
Fluorene	0.083	0.00067	"	0.164	0.000356	50.3	30-130	5.1	30	
Pyrene	0.0918	0.00067	"	0.164	<0.000643	55.9	30-130	10.5	30	
Benzo(a)anthracene	0.094	0.00067	"	0.164	0.00057	56.9	30-130	5.6	30	
Dibenz(a,h)anthracene	0.092	0.00067	"	0.164	0.00211	54.8	30-130	19	30	
Surrogate: Nitrobenzene-d5	46.2		"	0.329	163	46.2	29-110			
Surrogate: 4-Terphenyl-d14	48.6		"	0.329	180	48.6	33-122			
Surrogate: 2-Fluorobiphenyl	43.7		"	0.329	165	43.7	33-115			

MS (L 99787-MS-L653240)		Source: 99787			Prepared: 12/12/2022 Analyzed: 12/12/2022					
Indeno(1,2,3-cd)pyrene	0.0746	0.00067	mg/Kg	0.167	0.00231	43.2	30-130			
2-Methylnaphthalene	0.0873	0.00201	"	0.167	<0.00194	52.2	30-130			
Acenaphthene	0.0823	0.00067	"	0.167	<0.000304	49.2	30-130			
Anthracene	0.0824	0.00067	"	0.167	<0.000334	49.3	30-130			
Benzo(a)anthracene	0.0888	0.00067	"	0.167	0.00057	52.8	30-130			
Benzo(a)pyrene	0.0933	0.00067	"	0.167	0.00136	55	30-130			
Benzo(b)fluoranthene	0.0592	0.00067	"	0.167	0.00126	34.6	30-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L653240 - 3550B

MS (L 99787-MS-L653240)		Source: 99787			Prepared: 12/12/2022 Analyzed: 12/12/2022					
Benzo(k)fluoranthene	0.0627	0.00067	mg/Kg	0.167	0.0015	36.6	30-130			
Chrysene	0.0914	0.00067	"	0.167	0.000895	54.1	30-130			
Dibenz(a,h)anthracene	0.076	0.00067	"	0.167	0.00211	44.2	30-130			
1-Methylnaphthalene	0.0756	0.00201	"	0.167	<0.00109	45.2	30-130			
Fluorene	0.0788	0.00067	"	0.167	0.000356	46.9	30-130			
Naphthalene	0.0772	0.00201	"	0.167	<0.00145	46.2	30-130			
Pyrene	0.0826	0.00067	"	0.167	<0.000643	49.4	30-130			
Fluoranthene	0.0834	0.00067	"	0.167	<0.000394	49.9	30-130			
Surrogate: 2-Fluorobiphenyl	43.2		"	0.333	165	43.2	33-115			
Surrogate: 4-Terphenyl-d14	47.1		"	0.333	180	47.1	33-122			
Surrogate: Nitrobenzene-d5	42.6		"	0.333	163	42.6	29-110			

LCS (LCS-L653240)		Prepared: 12/12/2022 Analyzed: 12/12/2022								
Indeno(1,2,3-cd)pyrene	0.0821	0.00067	mg/Kg	0.167		49.1	30-130			
Chrysene	0.127	0.00067	"	0.167		76	30-130			
Dibenz(a,h)anthracene	0.0794	0.00067	"	0.167		47.5	30-130			
Fluoranthene	0.119	0.00067	"	0.167		71.2	30-130			
Fluorene	0.107	0.00067	"	0.167		64	30-130			
Naphthalene	0.1	0.00201	"	0.167		59.8	30-130			
Pyrene	0.117	0.00067	"	0.167		70	30-130			
Benzo(b)fluoranthene	0.09	0.00067	"	0.167		53.8	30-130			
Anthracene	0.114	0.00067	"	0.167		68.2	30-130			
1-Methylnaphthalene	0.107	0.00201	"	0.167		64	30-130			
2-Methylnaphthalene	0.116	0.00201	"	0.167		69.4	30-130			
Benzo(a)pyrene	0.123	0.00067	"	0.167		73.6	30-130			
Benzo(a)anthracene	0.118	0.00067	"	0.167		70.6	30-130			
Acenaphthene	0.107	0.00067	"	0.167		64	30-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L653240 - 3550B										
LCS (LCS-L653240)					Prepared: 12/12/2022 Analyzed: 12/12/2022					
Benzo(k)fluoranthene	0.102	0.00067	mg/Kg	0.167		61	30-130			
Surrogate: 2-Fluorobiphenyl	59.4		"	0.333		59.4	33-115			
Surrogate: 4-Terphenyl-d14	65.4		"	0.333		65.4	33-122			
Surrogate: Nitrobenzene-d5	58.2		"	0.333		58.2	29-110			
LRB (LRB-L653240)					Prepared: 12/12/2022 Analyzed: 12/12/2022					
Benzo(a)anthracene	ND	0.00067	mg/Kg				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	68.1		"	0.333		68.1	33-122			
Surrogate: 2-Fluorobiphenyl	57		"	0.333		57	33-115			
Surrogate: Nitrobenzene-d5	60		"	0.333		60	29-110			

Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L653445 - 3550B

MSD (L 81397-MSD-L653445)		Source: 81397			Prepared: 12/13/2022 Analyzed: 12/14/2022					
Pyrene	0.092	0.00067	mg/Kg	0.166	<0.000643	55.4	30-130	4.6	30	
Benzo(b)fluoranthene	0.0811	0.00067	"	0.166	<0.000585	48.8	30-130	28.4	30	
Benzo(a)pyrene	0.0998	0.00067	"	0.166	<0.000468	60.1	30-130	19.2	30	
Chrysene	0.095	0.00067	"	0.166	<0.000624	57.2	30-130	21.5	30	
Benzo(k)fluoranthene	0.0898	0.00067	"	0.166	<0.000437	54	30-130	11.7	30	
Benzo(a)anthracene	0.0924	0.00067	"	0.166	<0.000493	55.6	30-130	20	30	
Anthracene	0.0881	0.00067	"	0.166	<0.000334	53	30-130	23	30	
Acenaphthene	0.0825	0.00067	"	0.166	<0.000304	49.6	30-130	17.1	30	
2-Methylnaphthalene	0.0867	0.00201	"	0.166	<0.00194	52.2	30-130	16.2	30	
1-Methylnaphthalene	0.0757	0.00201	"	0.166	<0.00109	45.6	30-130	17.1	30	
Dibenz(a,h)anthracene	0.0882	0.00067	"	0.166	<0.000614	53.1	30-130	21	30	
Fluorene	0.0829	0.00067	"	0.166	<0.000286	49.9	30-130	18.3	30	
Indeno(1,2,3-cd)pyrene	0.0908	0.00067	"	0.166	<0.000627	54.6	30-130	20.9	30	
Naphthalene	0.0769	0.00201	"	0.166	<0.00145	46.3	30-130	21	30	
Fluoranthene	0.0924	0.00067	"	0.166	<0.000394	55.6	30-130	4.1	30	
Surrogate: 2-Fluorobiphenyl	41.5		"	0.332	169	41.5	33-115			
Surrogate: 4-Terphenyl-d14	50.6		"	0.332	192	50.6	33-122			
Surrogate: Nitrobenzene-d5	41.5		"	0.332	151	41.5	29-110			

MS (L 81397-MS-L653445)		Source: 81397			Prepared: 12/13/2022 Analyzed: 12/14/2022					
Indeno(1,2,3-cd)pyrene	0.112	0.00067	mg/Kg	0.167	<0.000627	67	30-130			
Pyrene	0.0964	0.00067	"	0.167	<0.000643	57.7	30-130			
1-Methylnaphthalene	0.0899	0.00201	"	0.167	<0.00109	53.8	30-130			
Naphthalene	0.095	0.00201	"	0.167	<0.00145	56.8	30-130			
Fluorene	0.0996	0.00067	"	0.167	<0.000286	59.6	30-130			
Fluoranthene	0.0963	0.00067	"	0.167	<0.000394	57.6	30-130			
Dibenz(a,h)anthracene	0.109	0.00067	"	0.167	<0.000614	65.2	30-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L653445 - 3550B

MS (L 81397-MS-L653445)		Source: 81397			Prepared: 12/13/2022 Analyzed: 12/14/2022					
Chrysene	0.118	0.00067	mg/Kg	0.167	<0.000624	70.6	30-130			
Benzo(k)fluoranthene	0.101	0.00067	"	0.167	<0.000437	60.4	30-130			
Acenaphthene	0.098	0.00067	"	0.167	<0.000304	58.6	30-130			
Anthracene	0.111	0.00067	"	0.167	<0.000334	66.4	30-130			
Benzo(a)anthracene	0.113	0.00067	"	0.167	<0.000493	67.6	30-130			
Benzo(a)pyrene	0.121	0.00067	"	0.167	<0.000468	72.4	30-130			
Benzo(b)fluoranthene	0.108	0.00067	"	0.167	<0.000585	64.6	30-130			
2-Methylnaphthalene	0.102	0.00201	"	0.167	<0.00194	61	30-130			
Surrogate: 2-Fluorobiphenyl	48.9		"	0.333	169	48.9	33-115			
Surrogate: 4-Terphenyl-d14	51.3		"	0.333	192	51.3	33-122			
Surrogate: Nitrobenzene-d5	48.9		"	0.333	151	48.9	29-110			

LCS (LCS-L653445)		Prepared: 12/13/2022 Analyzed: 12/14/2022								
Benzo(a)anthracene	0.139	0.00067	mg/Kg	0.167		83.2	30-130			
Acenaphthene	0.116	0.00067	"	0.167		69.4	30-130			
Anthracene	0.128	0.00067	"	0.167		76.6	30-130			
Benzo(k)fluoranthene	0.123	0.00067	"	0.167		73.6	30-130			
1-Methylnaphthalene	0.104	0.00201	"	0.167		62.2	30-130			
Benzo(a)pyrene	0.146	0.00067	"	0.167		87.4	30-130			
Chrysene	0.143	0.00067	"	0.167		85.6	30-130			
Pyrene	0.141	0.00067	"	0.167		84.4	30-130			
Naphthalene	0.11	0.00201	"	0.167		65.8	30-130			
Indeno(1,2,3-cd)pyrene	0.124	0.00067	"	0.167		74.2	30-130			
Fluorene	0.116	0.00067	"	0.167		69.4	30-130			
Fluoranthene	0.141	0.00067	"	0.167		84.4	30-130			
Dibenz(a,h)anthracene	0.122	0.00067	"	0.167		73	30-130			
2-Methylnaphthalene	0.123	0.00201	"	0.167		73.6	30-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L653445 - 3550B										
LCS (LCS-L653445)					Prepared: 12/13/2022 Analyzed: 12/14/2022					
Benzo(b)fluoranthene	0.128	0.00067	mg/Kg	0.167		76.6	30-130			
Surrogate: 4-Terphenyl-d14	78.6		"	0.333		78.6	33-122			
Surrogate: 2-Fluorobiphenyl	60.6		"	0.333		60.6	33-115			
Surrogate: Nitrobenzene-d5	57.9		"	0.333		57.9	29-110			
LRB (LRB-L653445)					Prepared: 12/13/2022 Analyzed: 12/14/2022					
Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	54.9		"	0.333		54.9	29-110			
Surrogate: 4-Terphenyl-d14	66.6		"	0.333		66.6	33-122			
Surrogate: 2-Fluorobiphenyl	45		"	0.333		45	33-115			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03,06 O SA

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



December 14, 2022

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Miller X 31-03

Project Number - [none]

Attached are your analytical results for KMG - Miller X 31-03 received by Origins Laboratory, Inc. December 07, 2022. This project is associated with Origins project number Y212144-01.

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

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

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

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

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

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



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

Tasman Geosciences

6855 West 119th Avenue

Broomfield CO 80020

Andy Sagen

Project Number: [none]

Project: KMG - Miller X 31-03

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW1-S03@8'	Y212144-01	Soil	December 7, 2022 13:30	12/07/2022 13:54

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03

Client: OVI / Jaramun

Project Manager: Andy Siglen

Address: 6655 N 119th Ave
Broomfield, CO 80020

Project Name: Miller X 31-03

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

Email Address: ovi@hennepincoalition.net

Project Number:

Samples Collected By: P. Downs

Method of Delivery (Circle One): hand Delivered Please Return Lost Box Drop Service Center Drop FedEx UPS

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis			Please contact PMI with any questions Samples to be analyzed for Table S15 Parameters full Table S15 solids, DOC (detected) full TKN, Am NH ₄ , EC, pH, Temp Mn+P, As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Conister #	Other	CBTEXN+TMB	
												DRO/VORO	
PV1-603E8'	12-7-02	1/330	2	X					X			BAL	Full Table S15
												SAR	TMB
												EC	15H
												pH	GTEX
												Boron	Full Table S15
												Full Table S15	TKN
												DOC	15H
												As	15H
												Cd	15H
												Cr	15H
												Cu	15H
												Hg	15H
												Ni	15H
												Pb	15H
												Se	15H
												Zn	15H
												TKN	15H
												DOC	15H
												Am	15H
												Mn+P	15H
												As	15H
												Cd	15H
												Cr	15H
												Cu	15H
												Hg	15H
												Ni	15H
												Pb	15H
												Se	15H
												Zn	15H
												TKN	15H
												DOC	15H
												Am	15H
												Mn+P	15H
												As	15H
												Cd	15H
												Cr	15H
												Cu	15H
												Hg	15H
												Ni	15H
												Pb	15H
												Se	15H
												Zn	15H
												TKN	15H
												DOC	15H
												Am	15H
												Mn+P	15H
												As	15H
												Cd	15H
												Cr	15H
												Cu	15H
												Hg	15H

ORIGINS
LABORATORY, INC.

Y212194

www.originslaboratory.com

page 1 of 1

Origins Laboratory, Inc.

Jeff Pelligrini

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4212144

Client: Tasman

Client Project ID: Miller X 31-03

Checklist Completed by: EHS/IDM

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

Date/time completed: 12/7/12

Airbill #: NA

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

Cooler Number/Temperature: 110-5°C / °C / °C (Describe) °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<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 checked="" type="checkbox"/>	<input 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) [Signature] Date/Time Reviewed 12/7/12

Origins Laboratory, Inc.

Jen 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 - Miller X 31-03

PW1-S03@8'
12/7/2022 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212144-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2L0733	ADM	12/07/2022	12/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 79.3 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2L0732	JSM	12/07/2022	12/07/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
Surrogate: Toluene-d8 101 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.5 % 70-130 " " "

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00201	mg/Kg	1	L653240		12/12/2022	12/12/2022	
2-Methylnaphthalene	ND	0.00201	"	"	"		"	"	

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03

PW1-S03@8'
12/7/2022 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y212144-01 (Soil)

PAH by 8270D SIM

Acenaphthene	ND	0.00067	mg/Kg	1	L653240		12/12/2022	12/12/2022
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"
Chrysene	ND	0.00067	"	"	"		"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"
Fluoranthene	ND	0.00067	"	"	"		"	"
Fluorene	ND	0.00067	"	"	"		"	"
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"
Naphthalene	ND	0.00201	"	"	"		"	"
Pyrene	ND	0.00067	"	"	"		"	"

Surrogate: 2-Fluorobiphenyl	39.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	50.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	41.2 %	29-110	"	"	"

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03

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 B2L0732 - EPA 5030 (soil)										
Blank (B2L0732-BLK1)					Prepared: 12/07/2022 Analyzed: 12/07/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03

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 B2L0732 - EPA 5030 (soil)

LCS (B2L0732-BS1)

Prepared: 12/07/2022 Analyzed: 12/07/2022

1,2,4-Trimethylbenzene	0.0910	0.00200	mg/kg	0.100		91.0	70-130			
1,3,5-Trimethylbenzene	0.0897	0.00200	"	0.100		89.7	70-130			
Benzene	0.0864	0.00200	"	0.100		86.4	70-130			
Ethylbenzene	0.0929	0.00200	"	0.100		92.9	70-130			
Naphthalene	0.0825	0.00380	"	0.100		82.5	70-130			
Toluene	0.0934	0.00200	"	0.100		93.4	70-130			
o-Xylene	0.0932	0.00200	"	0.100		93.2	70-130			
m,p-Xylene	0.183	0.00400	"	0.200		91.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03

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 B2L0732 - EPA 5030 (soil)

Matrix Spike (B2L0732-MS1)		Source: Y212144-01			Prepared: 12/07/2022 Analyzed: 12/07/2022					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Benzene	0.102	0.00200	"	0.100	ND	102	70-130			
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130			
Toluene	0.0999	0.00200	"	0.100	ND	99.9	70-130			
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130			
m,p-Xylene	0.207	0.00400	"	0.200	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03

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 B2L0732 - EPA 5030 (soil)										
Matrix Spike Dup (B2L0732-MSD1)		Source: Y212144-01			Prepared: 12/07/2022 Analyzed: 12/07/2022					
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130	1.19	20	
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130	1.11	20	
Benzene	0.102	0.00200	"	0.100	ND	102	70-130	0.491	20	
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	0.301	20	
Naphthalene	0.0981	0.00380	"	0.100	ND	98.1	70-130	2.77	20	
Toluene	0.101	0.00200	"	0.100	ND	101	70-130	0.897	20	
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130	0.228	20	
m,p-Xylene	0.207	0.00400	"	0.200	ND	104	70-130	0.203	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03

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 B2L0733 - EPA 3580										
Blank (B2L0733-BLK1)					Prepared: 12/07/2022 Analyzed: 12/07/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		83.5	50-150			

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Jen Pellegrini, Project Manager

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6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03

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 B2L0733 - EPA 3580

LCS (B2L0733-BS1)

Prepared: 12/07/2022 Analyzed: 12/07/2022

Diesel (C10-C28)	1190	50.0	mg/kg	1000		119	70-130			
Residual Range Organics (C28-C40)	885	200	"	1000		88.5	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.8	50-150			

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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03

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 B2L0733 - EPA 3580

Matrix Spike (B2L0733-MS1)		Source: Y212144-01			Prepared: 12/07/2022 Analyzed: 12/07/2022					
Diesel (C10-C28)	1170	50.0	mg/kg	1000	ND	117	70-130			
Residual Range Organics (C28-C40)	921	200	"	1000	ND	92.1	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.8	50-150			

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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03

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 B2L0733 - EPA 3580

Matrix Spike Dup (B2L0733-MSD1)		Source: Y212144-01			Prepared: 12/07/2022 Analyzed: 12/07/2022					
Diesel (C10-C28)	1210	50.0	mg/kg	1000	ND	121	70-130	4.06	35	
Residual Range Organics (C28-C40)	964	200	"	1000	ND	96.4	70-130	4.57	35	
Surrogate: o-Terphenyl	39		"	49.8		77.9	50-150			

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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L653240 - 3550B

MSD (L 99787-MSD-L653240)		Source: 99787			Prepared: 12/12/2022 Analyzed: 12/12/2022					
Benzo(b)fluoranthene	0.0738	0.00067	mg/Kg	0.164	0.00126	44.2	30-130	21.9	30	
Benzo(a)pyrene	0.098	0.00067	"	0.164	0.00136	58.9	30-130	4.9	30	
1-Methylnaphthalene	0.0824	0.00201	"	0.164	<0.00109	50.2	30-130	8.6	30	
2-Methylnaphthalene	0.0915	0.00201	"	0.164	<0.00194	55.7	30-130	4.6	30	
Acenaphthene	0.0825	0.00067	"	0.164	<0.000304	50.3	30-130	0.2	30	
Anthracene	0.0854	0.00067	"	0.164	<0.000334	52	30-130	3.5	30	
Pyrene	0.0918	0.00067	"	0.164	<0.000643	55.9	30-130	10.5	30	
Naphthalene	0.0801	0.00201	"	0.164	<0.00145	48.8	30-130	3.6	30	
Indeno(1,2,3-cd)pyrene	0.0949	0.00067	"	0.164	0.00231	56.4	30-130	23.9	30	
Fluorene	0.083	0.00067	"	0.164	0.000356	50.3	30-130	5.1	30	
Fluoranthene	0.0925	0.00067	"	0.164	<0.000394	56.4	30-130	10.3	30	
Dibenz(a,h)anthracene	0.092	0.00067	"	0.164	0.00211	54.8	30-130	19	30	
Chrysene	0.0968	0.00067	"	0.164	0.000895	58.4	30-130	5.7	30	
Benzo(k)fluoranthene	0.079	0.00067	"	0.164	0.0015	47.2	30-130	23	30	
Benzo(a)anthracene	0.094	0.00067	"	0.164	0.00057	56.9	30-130	5.6	30	
Surrogate: 2-Fluorobiphenyl	43.7		"	0.329	165	43.7	33-115			
Surrogate: 4-Terphenyl-d14	48.6		"	0.329	180	48.6	33-122			
Surrogate: Nitrobenzene-d5	46.2		"	0.329	163	46.2	29-110			

MS (L 99787-MS-L653240)		Source: 99787			Prepared: 12/12/2022 Analyzed: 12/12/2022					
Benzo(a)pyrene	0.0933	0.00067	mg/Kg	0.167	0.00136	55	30-130			
Chrysene	0.0914	0.00067	"	0.167	0.000895	54.1	30-130			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L653240 - 3550B

MS (L 99787-MS-L653240)		Source: 99787			Prepared: 12/12/2022 Analyzed: 12/12/2022					
Pyrene	0.0826	0.00067	mg/Kg	0.167	<0.000643	49.4	30-130			
Naphthalene	0.0772	0.00201	"	0.167	<0.00145	46.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0746	0.00067	"	0.167	0.00231	43.2	30-130			
Fluorene	0.0788	0.00067	"	0.167	0.000356	46.9	30-130			
Fluoranthene	0.0834	0.00067	"	0.167	<0.000394	49.9	30-130			
Dibenz(a,h)anthracene	0.076	0.00067	"	0.167	0.00211	44.2	30-130			
Benzo(b)fluoranthene	0.0592	0.00067	"	0.167	0.00126	34.6	30-130			
Benzo(a)anthracene	0.0888	0.00067	"	0.167	0.00057	52.8	30-130			
Anthracene	0.0824	0.00067	"	0.167	<0.000334	49.3	30-130			
Acenaphthene	0.0823	0.00067	"	0.167	<0.000304	49.2	30-130			
2-Methylnaphthalene	0.0873	0.00201	"	0.167	<0.00194	52.2	30-130			
1-Methylnaphthalene	0.0756	0.00201	"	0.167	<0.00109	45.2	30-130			
Benzo(k)fluoranthene	0.0627	0.00067	"	0.167	0.0015	36.6	30-130			
Surrogate: Nitrobenzene-d5	42.6		"	0.333	163	42.6	29-110			
Surrogate: 2-Fluorobiphenyl	43.2		"	0.333	165	43.2	33-115			
Surrogate: 4-Terphenyl-d14	47.1		"	0.333	180	47.1	33-122			

LCS (LCS-L653240)

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

Dibenz(a,h)anthracene	0.0794	0.00067	mg/Kg	0.167		47.5	30-130
Fluoranthene	0.119	0.00067	"	0.167		71.2	30-130
Fluorene	0.107	0.00067	"	0.167		64	30-130
Indeno(1,2,3-cd)pyrene	0.0821	0.00067	"	0.167		49.1	30-130
Naphthalene	0.1	0.00201	"	0.167		59.8	30-130
Pyrene	0.117	0.00067	"	0.167		70	30-130
Chrysene	0.127	0.00067	"	0.167		76	30-130
1-Methylnaphthalene	0.107	0.00201	"	0.167		64	30-130
Benzo(b)fluoranthene	0.09	0.00067	"	0.167		53.8	30-130

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L653240 - 3550B

LCS (LCS-L653240)

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

Benzo(a)pyrene	0.123	0.00067	mg/Kg	0.167		73.6	30-130			
Benzo(a)anthracene	0.118	0.00067	"	0.167		70.6	30-130			
Acenaphthene	0.107	0.00067	"	0.167		64	30-130			
2-Methylnaphthalene	0.116	0.00201	"	0.167		69.4	30-130			
Anthracene	0.114	0.00067	"	0.167		68.2	30-130			
Benzo(k)fluoranthene	0.102	0.00067	"	0.167		61	30-130			
Surrogate: 4-Terphenyl-d14	65.4		"	0.333		65.4	33-122			
Surrogate: Nitrobenzene-d5	58.2		"	0.333		58.2	29-110			
Surrogate: 2-Fluorobiphenyl	59.4		"	0.333		59.4	33-115			

LRB (LRB-L653240)

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

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	68.1		"	0.333		68.1	33-122			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Miller X 31-03

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L653240 - 3550B

LRB (LRB-L653240)

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

Surrogate: Nitrobenzene-d5	60		mg/Kg	0.333	60		29-110			
Surrogate: 2-Fluorobiphenyl	57		"	0.333	57		33-115			

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 - Miller X 31-03

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.

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Jen Pellegrini, Project Manager