



September 17, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - West farms 2-14A

Project Number - 90406875

Attached are your analytical results for KMG - West farms 2-14A received by Origins Laboratory, Inc. September 08, 2021. This project is associated with Origins project number Y109129-01.

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

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@4'	Y109129-01	Soil	September 8, 2021 12:43	09/08/2021 17:10
WH-W01@2'	Y109129-05	Soil	September 8, 2021 12:47	09/08/2021 17:10
WH-BG01@2'	Y109129-06	Soil	September 8, 2021 12:48	09/08/2021 17:10
WH-BG01@4'	Y109129-07	Soil	September 8, 2021 12:49	09/08/2021 17:10
WH-BG02@2'	Y109129-08	Soil	September 8, 2021 12:50	09/08/2021 17:10
WH-BG02@4'	Y109129-09	Soil	September 8, 2021 12:51	09/08/2021 17:10
WH-BG03@2'	Y109129-10	Soil	September 8, 2021 12:52	09/08/2021 17:10
WH-BG03@4'	Y109129-11	Soil	September 8, 2021 12:53	09/08/2021 17:10
WH-BG04@2'	Y109129-12	Soil	September 8, 2021 12:54	09/08/2021 17:10
WH-BG04@4'	Y109129-13	Soil	September 8, 2021 12:55	09/08/2021 17:10
GW01	Y109129-14	Water	September 8, 2021 12:30	09/08/2021 17:10

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Jen Pellegrini, Project Manager

Tasman Geosciences

6855 West 119th Avenue

Broomfield CO 80020

Mike Jahn

Project Number: 90406875

Project: KMG - West farms 2-14A

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Client: Oxy/Tasman
Address: _____
Project Manager: Mike Jahn
Project Name: West Farms Unit 2-14A
Project Number: 90406875
Telephone Number: _____
Email Address: Mike.Jahn@tasman-geo.com
Samples Collected By: BT

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
WH-80104'	9-8-21	1243	2	X				X		X X X X X	Metals on hold for 1
WH-80105 2'		1244									1st samples
WH-80105 3'		1245									Full 915 for NO ₃
WH-80105 3'		1246									Soil Ed, w/1, p.1
WH-80105 3'		1247								X X	
WH-80105 3'		1249								X X X X	PHLESA/B adduct
WH-80105 3'		1249									to 80104' per
WH-80105 3'		1250									Brandons email 10/9/18
WH-80105 3'		1251									
WH-80105 3'		1252									
Relinquished By: <u>Brandon V.</u>	Date: <u>9-8-21</u>	Time: <u>1705</u>	Received By: <u>BT</u>	Date: <u>9-8-21</u>	Time: <u>1710</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard					

Temp Received: 3.1 Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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page 2 of 2

Client: Dxx/Tasman
Address: _____
Project Manager: Mike Jahn
Project Name: West farms 2-14A
Project Number: 90406875
Telephone Number: _____
Email Address: Mike.Jahn@originslab.com
Samples Collected By: BL

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
WH-160304	9-8-21	1353	2	X				X			1
WH-160402	1	1354	1								2
WH-160404	1	1355	1								3
GND-1	1	1358	3					X			4
											5
											6
											7
											8
											9
											10

Relinquished By: <u>Brandon J</u>	Date: <u>9-8-21</u>	Time: <u>1105</u>	Received By: <u>KL</u>	Date: <u>9-8-21</u>	Time: <u>1710</u>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Turnaround Time:	24 Hr <input type="checkbox"/>
Same Day <input checked="" type="checkbox"/>	48 Hr <input type="checkbox"/>
Standard <input type="checkbox"/>	72 Hr <input type="checkbox"/>

Temp Received: 3/ Date Results Needed

Origins Laboratory, Inc.

Jen Pellegrini

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Origins Laboratory

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

Origins Work Order: 4109129

Client: Tasman

Client Project ID: West Farms 2-14A

Checklist Completed by: JA

Date/Time completed: 9/8/21

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

Airbill #: N/A

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

Cooler Number/Temperature: 1, 3.1 °C / 1 °C / 1 °C (Describe) _____

Thermometer ID: T003

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) [Signature] Date/Time Reviewed 9/8/21

Origins Laboratory, Inc.

Jen Pellegrini

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6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

WH-B01@4'
9/8/2021 12:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109129-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.200	mg/L	1	B111002	KAP	09/10/2021	09/10/2021	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B110829	AJP	09/08/2021	09/08/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	AJP	"	"	U

Surrogate: o-Terphenyl	64.3 %	50-150			"	"	"
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GBTEX+TMBs

Naphthalene	ND	0.00380	mg/kg	1	B110830	AJP	09/08/2021	09/09/2021	U
Benzene	ND	0.00200	"	"	"	AJP	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	AJP	"	"	U
Toluene	ND	0.00200	"	"	"	AJP	"	"	U
Gasoline Range Hydrocarbons	0.544	0.200	"	"	"	AJP	"	"	
Xylenes, total	ND	0.00200	"	"	"	AJP	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130			"	"	"
Surrogate: Toluene-d8	93.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

Metals by Saturated Paste

Calcium	2.13	0.499	meq/L	10	[CALC]	KAP	09/15/2021	09/15/2021
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6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

WH-B01@4'
9/8/2021 12:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109129-01 (Soil)

Metals by Saturated Paste

Magnesium	ND	0.823	meq/L	10	[CALC]	KAP	09/15/2021	09/15/2021	
Sodium	2.80	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	7.84		pH Units	1	B111506	JSM	09/15/2021	09/15/2021	
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SAR by 20B Saturated Paste

SAR	2.31		SAR	1	B111518	KAP	09/15/2021	09/15/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.635	0.00500	mmhos/cm	1	B111505	JSM	09/15/2021	09/15/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

WH-W01@2'
9/8/2021 12:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109129-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B110829	AJP	09/08/2021	09/08/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	AJP	"	"	U

Surrogate: o-Terphenyl 65.0 % 50-150 " " "

GBTEX+TMBs

Naphthalene	ND	0.00380	mg/kg	1	B110830	AJP	09/08/2021	09/09/2021	U
Benzene	ND	0.00200	"	"	"	AJP	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	AJP	"	"	U
Toluene	ND	0.00200	"	"	"	AJP	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	AJP	"	"	U
Xylenes, total	ND	0.00200	"	"	"	AJP	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.3 % 70-130 " " "
Surrogate: Toluene-d8 93.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.6 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

WH-BG01@2'
9/8/2021 12:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109129-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.977	0.199	mg/L	1	B110911	KAP	09/09/2021	09/09/2021
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Metals by Saturated Paste

Calcium	23.9	0.499	meq/L	10	[CALC]	KAP	09/09/2021	09/09/2021
Magnesium	11.0	0.823	"	"	"	KAP	"	"
Sodium	40.1	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.73		pH Units	1	B110902	JSM	09/09/2021	09/09/2021
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SAR by 20B Saturated Paste

SAR	9.62		SAR	1	B110907	KAP	09/09/2021	09/09/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.73	0.00500	mmhos/cm	1	B110905	JSM	09/09/2021	09/09/2021
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

WH-BG01@4'
9/8/2021 12:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109129-07 (Soil)

Boron (DTPA Sorbitol)

Boron	1.01	0.199	mg/L	1	B110911	KAP	09/09/2021	09/09/2021
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Metals by Saturated Paste

Calcium	13.8	0.499	meq/L	10	[CALC]	KAP	09/09/2021	09/09/2021
Magnesium	6.20	0.823	"	"	"	KAP	"	"
Sodium	30.7	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.67		pH Units	1	B110902	JSM	09/09/2021	09/09/2021
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SAR by 20B Saturated Paste

SAR	9.69		SAR	1	B110907	KAP	09/09/2021	09/09/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.48	0.00500	mmhos/cm	1	B110905	JSM	09/09/2021	09/09/2021
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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

WH-BG02@2'

9/8/2021 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
Y109129-08 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.794	0.199	mg/L	1	B110911	KAP	09/09/2021	09/09/2021
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Metals by Saturated Paste

Calcium	23.7	0.499	meq/L	10	[CALC]	KAP	09/09/2021	09/09/2021
Magnesium	10.7	0.823	"	"	"	KAP	"	"
Sodium	19.7	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.49		pH Units	1	B110902	JSM	09/09/2021	09/09/2021
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SAR by 20B Saturated Paste

SAR	4.74		SAR	1	B110907	KAP	09/09/2021	09/09/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.21	0.00500	mmhos/cm	1	B110905	JSM	09/09/2021	09/09/2021
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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

WH-BG02@4'
9/8/2021 12:51:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109129-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B110911	KAP	09/09/2021	09/09/2021	U
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Metals by Saturated Paste

Calcium	8.47	0.499	meq/L	10	[CALC]	KAP	09/09/2021	09/09/2021
Magnesium	3.65	0.823	"	"	"	KAP	"	"
Sodium	18.1	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.65		pH Units	1	B110902	JSM	09/09/2021	09/09/2021
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SAR by 20B Saturated Paste

SAR	7.36		SAR	1	B110907	KAP	09/09/2021	09/09/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.84	0.00500	mmhos/cm	1	B110905	JSM	09/09/2021	09/09/2021
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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

WH-BG03@2'
9/8/2021 12:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109129-10 (Soil)

Boron (DTPA Sorbitol)

Boron	1.98	1.98	mg/L	10	B110911	KAP	09/09/2021	09/09/2021	U
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Metals by Saturated Paste

Calcium	6.72	0.499	meq/L	"	[CALC]	KAP	09/09/2021	09/09/2021
Magnesium	5.75	0.823	"	"	"	KAP	"	"
Sodium	31.4	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.89		pH Units	1	B110902	JSM	09/09/2021	09/09/2021
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SAR by 20B Saturated Paste

SAR	12.6		SAR	1	B110907	KAP	09/09/2021	09/09/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.92	0.00500	mmhos/cm	1	B110905	JSM	09/09/2021	09/09/2021
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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

WH-BG03@4'
9/8/2021 12:53:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109129-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.739	0.200	mg/L	1	B110911	KAP	09/09/2021	09/09/2021
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Metals by Saturated Paste

Calcium	26.3	0.499	meq/L	10	[CALC]	KAP	09/09/2021	09/09/2021
Magnesium	10.9	0.823	"	"	"	KAP	"	"
Sodium	33.4	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.67		pH Units	1	B110902	JSM	09/09/2021	09/09/2021
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SAR by 20B Saturated Paste

SAR	7.73		SAR	1	B110907	KAP	09/09/2021	09/09/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.46	0.00500	mmhos/cm	1	B110905	JSM	09/09/2021	09/09/2021
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

WH-BG04@2'

9/8/2021 12:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109129-12 (Soil)

Boron (DTPA Sorbitol)

Boron	1.59	0.199	mg/L	1	B110911	KAP	09/09/2021	09/09/2021
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Metals by Saturated Paste

Calcium	27.9	0.499	meq/L	10	[CALC]	KAP	09/09/2021	09/09/2021
Magnesium	15.0	0.823	"	"	"	KAP	"	"
Sodium	64.9	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.74		pH Units	1	B110902	JSM	09/09/2021	09/09/2021
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SAR by 20B Saturated Paste

SAR	14.0		SAR	1	B110907	KAP	09/09/2021	09/09/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.78	0.00500	mmhos/cm	1	B110905	JSM	09/09/2021	09/09/2021
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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

WH-BG04@4'
9/8/2021 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109129-13 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.200	mg/L	1	B111305	KAP	09/14/2021	09/14/2021	U
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Metals by Saturated Paste

Calcium	2.91	0.499	meq/L	10	[CALC]	KAP	09/09/2021	09/09/2021
Magnesium	1.26	0.823	"	"	"	KAP	"	"
Sodium	8.09	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.68		pH Units	1	B110902	JSM	09/09/2021	09/09/2021
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SAR by 20B Saturated Paste

SAR	5.60		SAR	1	B110907	KAP	09/09/2021	09/09/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.26	0.00500	mmhos/cm	1	B110905	JSM	09/09/2021	09/09/2021
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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

GW01

9/8/2021 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109129-14 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	1.71	1.00	ug/L	1	B110812	KDK	09/08/2021	09/08/2021	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	89.7 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B110812 - EPA 5030B (Water)										
Blank (B110812-BLK1)					Prepared: 09/08/2021 Analyzed: 09/08/2021					
1,2,4-Trimethylbenzene	ND	1.00	ug/L							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	4.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.1	70-130			

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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B110812 - EPA 5030B (Water)										
LCS (B110812-BS1)					Prepared: 09/08/2021 Analyzed: 09/08/2021					
1,2,4-Trimethylbenzene	53.2	1.00	ug/L	50.0		106	70-130			
1,3,5-Trimethylbenzene	53.8	1.00	"	50.0		108	70-130			
Benzene	49.2	1.00	"	50.0		98.5	70-130			
Ethylbenzene	54.1	1.00	"	50.0		108	70-130			
m,p-Xylene	113	2.00	"	100		113	70-130			
Naphthalene	53.6	4.00	"	50.0		107	70-130			
o-Xylene	57.1	1.00	"	50.0		114	70-130			
Toluene	52.8	1.00	"	50.0		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	73		"	62.5		117	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.2	70-130			

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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B110812 - EPA 5030B (Water)

Matrix Spike (B110812-MS1)		Source: Y109085-01			Prepared: 09/08/2021 Analyzed: 09/08/2021					
1,2,4-Trimethylbenzene	43.2	1.00	ug/L	50.0	0.130	86.2	70-130			
1,3,5-Trimethylbenzene	41.7	1.00	"	50.0	ND	83.5	70-130			
Benzene	40.4	1.00	"	50.0	ND	80.8	70-130			
Ethylbenzene	43.4	1.00	"	50.0	ND	86.7	70-130			
m,p-Xylene	91.4	2.00	"	100	0.190	91.2	70-130			
Naphthalene	46.2	4.00	"	50.0	0.900	90.5	70-130			
o-Xylene	48.8	1.00	"	50.0	ND	97.5	70-130			
Toluene	43.3	1.00	"	50.0	ND	86.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	74		"	62.5		118	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.3	70-130			

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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B1I0812 - EPA 5030B (Water)										
Matrix Spike Dup (B1I0812-MSD1)	Source: Y109085-01				Prepared: 09/08/2021 Analyzed: 09/08/2021					
1,2,4-Trimethylbenzene	44.9	1.00	ug/L	50.0	0.130	89.5	70-130	3.77	20	
1,3,5-Trimethylbenzene	43.6	1.00	"	50.0	ND	87.2	70-130	4.34	20	
Benzene	42.2	1.00	"	50.0	ND	84.4	70-130	4.38	20	
Ethylbenzene	46.7	1.00	"	50.0	ND	93.4	70-130	7.42	20	
m,p-Xylene	98.3	2.00	"	100	0.190	98.1	70-130	7.26	20	
Naphthalene	47.6	4.00	"	50.0	0.900	93.4	70-130	3.07	20	
o-Xylene	51.1	1.00	"	50.0	ND	102	70-130	4.65	20	
Toluene	45.6	1.00	"	50.0	ND	91.3	70-130	5.29	20	
Surrogate: 1,2-Dichloroethane-d4	72		"	62.5		115	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.2	70-130			

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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B110829 - EPA 3550B										
Blank (B110829-BLK1)					Prepared: 09/08/2021 Analyzed: 09/08/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	25.0		77.4	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B1I0829 - EPA 3550B

LCS (B1I0829-BS1)

Prepared: 09/08/2021 Analyzed: 09/08/2021

Diesel (C10-C28)	716	50.0	mg/kg	1000		71.6	70-130			
Residual Range Organics (C28-C40)	718	200	"	1000		71.8	70-130			
Surrogate: o-Terphenyl	38		"	50.0		76.5	50-150			

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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B110829 - EPA 3550B

Matrix Spike (B110829-MS1)		Source: Y109125-01			Prepared: 09/08/2021 Analyzed: 09/08/2021					
Diesel (C10-C28)	800	50.0	mg/kg	1000	ND	80.0	70-130			
Residual Range Organics (C28-C40)	816	200	"	1000	ND	81.6	70-130			
Surrogate: o-Terphenyl	42		"	50.0		83.7	50-150			

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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B110829 - EPA 3550B

Matrix Spike Dup (B110829-MSD1)		Source: Y109125-01			Prepared: 09/08/2021 Analyzed: 09/08/2021					
Diesel (C10-C28)	791	50.0	mg/kg	1000	ND	79.1	70-130	1.18	35	
Residual Range Organics (C28-C40)	787	200	"	1000	ND	78.7	70-130	3.53	35	
Surrogate: o-Terphenyl	42		"	50.0		83.9	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B110830 - EPA 5030 (soil)										
Blank (B110830-BLK1)					Prepared: 09/08/2021 Analyzed: 09/08/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B110830 - EPA 5030 (soil)										
LCS (B110830-BS1)					Prepared: 09/08/2021 Analyzed: 09/08/2021					
1,2,4-Trimethylbenzene	0.0972	0.00200	mg/kg	0.100		97.2	70-130			
Naphthalene	0.105	0.0100	"	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.0960	0.00200	"	0.100		96.0	70-130			
Benzene	0.114	0.00200	"	0.100		114	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.203	0.00400	"	0.200		102	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
Toluene	0.0996	0.00200	"	0.100		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B110830 - EPA 5030 (soil)										
Matrix Spike (B110830-MS1)		Source: Y109125-01			Prepared: 09/08/2021 Analyzed: 09/08/2021					
1,2,4-Trimethylbenzene	0.0827	0.00200	mg/kg	0.100	ND	82.7	70-130			
Naphthalene	0.0971	0.0100	"	0.100	0.00190	95.2	70-130			
1,3,5-Trimethylbenzene	0.0808	0.00200	"	0.100	ND	80.8	70-130			
Benzene	0.0989	0.00200	"	0.100	ND	98.9	70-130			
Ethylbenzene	0.0822	0.00200	"	0.100	ND	82.2	70-130			
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.6	70-130			
o-Xylene	0.0871	0.00200	"	0.100	ND	87.1	70-130			
Toluene	0.0862	0.00200	"	0.100	ND	86.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B110830 - EPA 5030 (soil)										
Matrix Spike Dup (B110830-MSD1)	Source: Y109125-01				Prepared: 09/08/2021 Analyzed: 09/08/2021					
1,2,4-Trimethylbenzene	0.0774	0.00200	mg/kg	0.100	ND	77.4	70-130	6.69	20	
Naphthalene	0.0914	0.0100	"	0.100	0.00190	89.5	70-130	6.07	20	
1,3,5-Trimethylbenzene	0.0759	0.00200	"	0.100	ND	75.9	70-130	6.20	20	
Benzene	0.0922	0.00200	"	0.100	ND	92.2	70-130	6.99	20	
Ethylbenzene	0.0794	0.00200	"	0.100	ND	79.4	70-130	3.46	20	
m,p-Xylene	0.161	0.00400	"	0.200	ND	80.4	70-130	3.92	20	
o-Xylene	0.0830	0.00200	"	0.100	ND	83.0	70-130	4.82	20	
Toluene	0.0811	0.00200	"	0.100	ND	81.1	70-130	6.07	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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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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 B1I1305 - Default Prep Metals

Blank (B1I1305-BLK1)

Prepared: 09/14/2021 Analyzed: 09/14/2021

Boron	ND	0.200	mg/L							U
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Batch B1I1518 - Default Prep Metals

Blank (B1I1518-BLK1)

Prepared: 09/15/2021 Analyzed: 09/15/2021

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

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1I0902 - NO PREP										
Duplicate (B1I0902-DUP1)	Source: Y109128-01				Prepared: 09/09/2021 Analyzed: 09/09/2021					
pH	4.81		pH Units		5.26			8.94	25	
Batch B1I0905 - NO PREP										
Blank (B1I0905-BLK1)					Prepared: 09/09/2021 Analyzed: 09/09/2021					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B1I0905-DUP1)	Source: Y109128-01				Prepared: 09/09/2021 Analyzed: 09/09/2021					
Specific Conductance (EC)	0.230	0.00500	mmhos/cm		0.195			16.8	25	
Batch B1I1505 - NO PREP										
Blank (B1I1505-BLK1)					Prepared: 09/15/2021 Analyzed: 09/15/2021					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B1I1505-DUP1)	Source: Y109237-01				Prepared: 09/15/2021 Analyzed: 09/15/2021					
Specific Conductance (EC)	4.02	0.00500	mmhos/cm		3.29			19.9	25	
Batch B1I1506 - NO PREP										
Duplicate (B1I1506-DUP1)	Source: Y109237-01				Prepared: 09/15/2021 Analyzed: 09/15/2021					
pH	7.76		pH Units		7.80			0.514	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

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 03, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - West Farms

Project Number - 90406875

Attached are your analytical results for KMG - West Farms received by Origins Laboratory, Inc. November 19, 2021. This project is associated with Origins project number Y111420-01.

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

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST-B01@3"	Y111420-01	Soil	November 19, 2021 14:00	11/19/2021 16:58
PW-B01@4'	Y111420-02	Soil	November 19, 2021 14:04	11/19/2021 16:58
PW-E01@3'	Y111420-03	Soil	November 19, 2021 14:10	11/19/2021 16:58
SEP-B01@3'	Y111420-04	Soil	November 19, 2021 14:16	11/19/2021 16:58
SEP-B02@3'	Y111420-05	Soil	November 19, 2021 14:18	11/19/2021 16:58
TB-BG01@2'	Y111420-06	Soil	November 19, 2021 14:24	11/19/2021 16:58
TB-BG01@4'	Y111420-07	Soil	November 19, 2021 14:26	11/19/2021 16:58
TB-BG02@2'	Y111420-08	Soil	November 19, 2021 14:28	11/19/2021 16:58
TB-BG02@4'	Y111420-09	Soil	November 19, 2021 14:30	11/19/2021 16:58
TB-BG03@2'	Y111420-10	Soil	November 19, 2021 14:32	11/19/2021 16:58
TB-BG03@4'	Y111420-11	Soil	November 19, 2021 14:34	11/19/2021 16:58
TB-BG04@2'	Y111420-12	Soil	November 19, 2021 14:36	11/19/2021 16:58
TB-BG04@4'	Y111420-13	Soil	November 19, 2021 14:38	11/19/2021 16:58

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

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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page 1 of 2

ORIGINS
LABORATORY, INC

111420

Project Manager: Mike Jahn
Project Name: West Farms
Project Number: 90406875
Samples Collected By: M. R. Jahn

Client: Oxy Tasman
Address:
Telephone Number:
Email Address: m.jahn@tasman-geo.com

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
AST-B0103	11/19/21	14:00	2	X					X	CRS N	1
PW-B0104	11/19/21	14:04	1							CRS N	2
PW-B0103	11/19/21	14:10	1							CRS N	3
SEP-B0103	11/19/21	14:16	1							CRS N	4
SEP-B0103	11/19/21	14:18	1							CRS N	5
SEP-B0103	11/19/21	14:24	1							CRS N	6
SEP-B0103	11/19/21	14:26	1							CRS N	7
SEP-B0103	11/19/21	14:28	1							CRS N	8
SEP-B0103	11/19/21	14:30	1							CRS N	9
SEP-B0103	11/19/21	14:30	1							CRS N	10
SEP-B0103	11/19/21	14:30	1							CRS N	11
SEP-B0103	11/19/21	14:30	1							CRS N	12
SEP-B0103	11/19/21	14:30	1							CRS N	13
SEP-B0103	11/19/21	14:30	1							CRS N	14
SEP-B0103	11/19/21	14:30	1							CRS N	15
SEP-B0103	11/19/21	14:30	1							CRS N	16
SEP-B0103	11/19/21	14:30	1							CRS N	17
SEP-B0103	11/19/21	14:30	1							CRS N	18
SEP-B0103	11/19/21	14:30	1							CRS N	19
SEP-B0103	11/19/21	14:30	1							CRS N	20
SEP-B0103	11/19/21	14:30	1							CRS N	21
SEP-B0103	11/19/21	14:30	1							CRS N	22
SEP-B0103	11/19/21	14:30	1							CRS N	23
SEP-B0103	11/19/21	14:30	1							CRS N	24
SEP-B0103	11/19/21	14:30	1							CRS N	25
SEP-B0103	11/19/21	14:30	1							CRS N	26
SEP-B0103	11/19/21	14:30	1							CRS N	27
SEP-B0103	11/19/21	14:30	1							CRS N	28
SEP-B0103	11/19/21	14:30	1							CRS N	29
SEP-B0103	11/19/21	14:30	1							CRS N	30
SEP-B0103	11/19/21	14:30	1							CRS N	31
SEP-B0103	11/19/21	14:30	1							CRS N	32
SEP-B0103	11/19/21	14:30	1							CRS N	33
SEP-B0103	11/19/21	14:30	1							CRS N	34
SEP-B0103	11/19/21	14:30	1							CRS N	35
SEP-B0103	11/19/21	14:30	1							CRS N	36
SEP-B0103	11/19/21	14:30	1							CRS N	37
SEP-B0103	11/19/21	14:30	1							CRS N	38
SEP-B0103	11/19/21	14:30	1							CRS N	39
SEP-B0103	11/19/21	14:30	1							CRS N	40
SEP-B0103	11/19/21	14:30	1							CRS N	41
SEP-B0103	11/19/21	14:30	1							CRS N	42
SEP-B0103	11/19/21	14:30	1							CRS N	43
SEP-B0103	11/19/21	14:30	1							CRS N	44
SEP-B0103	11/19/21	14:30	1							CRS N	45
SEP-B0103	11/19/21	14:30	1							CRS N	46
SEP-B0103	11/19/21	14:30	1							CRS N	47
SEP-B0103	11/19/21	14:30	1							CRS N	48
SEP-B0103	11/19/21	14:30	1							CRS N	49
SEP-B0103	11/19/21	14:30	1							CRS N	50
SEP-B0103	11/19/21	14:30	1							CRS N	51
SEP-B0103	11/19/21	14:30	1							CRS N	52
SEP-B0103	11/19/21	14:30	1							CRS N	53
SEP-B0103	11/19/21	14:30	1							CRS N	54
SEP-B0103	11/19/21	14:30	1							CRS N	55
SEP-B0103	11/19/21	14:30	1							CRS N	56
SEP-B0103	11/19/21	14:30	1							CRS N	57
SEP-B0103	11/19/21	14:30	1							CRS N	58
SEP-B0103	11/19/21	14:30	1							CRS N	59
SEP-B0103	11/19/21	14:30	1							CRS N	60
SEP-B0103	11/19/21	14:30	1							CRS N	61
SEP-B0103	11/19/21	14:30	1							CRS N	62
SEP-B0103	11/19/21	14:30	1							CRS N	63
SEP-B0103	11/19/21	14:30	1							CRS N	64
SEP-B0103	11/19/21	14:30	1							CRS N	65
SEP-B0103	11/19/21	14:30	1							CRS N	66
SEP-B0103	11/19/21	14:30	1							CRS N	67
SEP-B0103	11/19/21	14:30	1							CRS N	68
SEP-B0103	11/19/21	14:30	1							CRS N	69
SEP-B0103	11/19/21	14:30	1							CRS N	70
SEP-B0103	11/19/21	14:30	1							CRS N	71
SEP-B0103	11/19/21	14:30	1							CRS N	72
SEP-B0103	11/19/21	14:30	1							CRS N	73
SEP-B0103	11/19/21	14:30	1							CRS N	74
SEP-B0103	11/19/21	14:30	1							CRS N	75
SEP-B0103	11/19/21	14:30	1							CRS N	76
SEP-B0103	11/19/21	14:30	1							CRS N	77
SEP-B0103	11/19/21	14:30	1							CRS N	78
SEP-B0103	11/19/21	14:30	1							CRS N	79
SEP-B0103	11/19/21	14:30	1							CRS N	80
SEP-B0103	11/19/21	14:30	1							CRS N	81
SEP-B0103	11/19/21	14:30	1							CRS N	82
SEP-B0103	11/19/21	14:30	1							CRS N	83
SEP-B0103	11/19/21	14:30	1							CRS N	84
SEP-B0103	11/19/21	14:30	1							CRS N	85
SEP-B0103	11/19/21	14:30	1							CRS N	86
SEP-B0103	11/19/21	14:30	1							CRS N	87
SEP-B0103	11/19/21	14:30	1							CRS N	88
SEP-B0103	11/19/21	14:30	1							CRS N	89
SEP-B0103	11/19/21	14:30	1							CRS N	90
SEP-B0103	11/19/21	14:30	1							CRS N	91
SEP-B0103	11/19/21	14:30	1							CRS N	92
SEP-B0103	11/19/21	14:30	1							CRS N	93
SEP-B0103	11/19/21	14:30	1							CRS N	94
SEP-B0103	11/19/21	14:30	1							CRS N	95
SEP-B0103	11/19/21	14:30	1							CRS N	96
SEP-B0103	11/19/21	14:30	1							CRS N	97
SEP-B0103	11/19/21	14:30	1							CRS N	98
SEP-B0103	11/19/21	14:30	1							CRS N	99
SEP-B0103	11/19/21	14:30	1							CRS N	100

Date Results Needed

Temp Received: 4.9

Origins Laboratory, Inc.

Jordan A. Merrill

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.

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

ORIGINS

LABORATORY, INC

YINZO

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page 2 of 2

1725 Elk Place

Phone: 303.433.1322

Denver, CO 80211

Client: XX/Tuxun

Address: _____

Telephone Number: _____

Email Address: Myelin@tuxun.gov.cn

Project Manager: Mike John

Project Name: West Farms

Project Number: 90906875

Samples Collected By: M. Rianda

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
TP-B603021	11/19/21	14:32	2	X					X		XX XX X	1
TP-B60304		14:34	1									2
TP-B604021		14:36	1									3
TP-B60404		14:38	1									4
TP-B60407		13:45	3	X					X			5
												6
												7
												8
												9
												10
Requisitioned By: <u>[Signature]</u>	Date: <u>11/19/21</u>	Time: _____	Received By: <u>[Signature]</u>	Date: <u>11/19/21</u>	Time: <u>1658</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>						

Temp Received: 4.9

Date Results Needed

Origins Laboratory, Inc.

Menk

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

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y111420

Client: Tasman
Client Project ID: West Farms

Checklist Completed by: JG
Date/time completed: 11/19/21

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

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

Cooler Number/Temperature: 1, 4.9 °C 1 °C 1 °C 1 °C

Thermometer ID: T003

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

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

Reviewed by (Project Manager)

Date/Time Reviewed 11/19/21

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

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

AST-B01@3"

11/19/2021 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y111420-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1K1928	11/19/2021	11/20/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.7 %	50-150	"	"	"
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GBTEX+TMBs

Naphthalene	ND	0.00380	mg/kg	1	B1K1929	11/19/2021	11/19/2021	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"
Surrogate: Toluene-d8	98.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.9 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

PW-B01@4'

11/19/2021 2:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111420-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1K1928	11/19/2021	11/20/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 79.6 % 50-150 " " "

GBTEX+TMBs

Naphthalene	ND	0.00380	mg/kg	1	B1K1929	11/19/2021	11/19/2021	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
Surrogate: Toluene-d8 99.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.7 % 70-130 " " "

Origins Laboratory, Inc.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

PW-E01@3'

11/19/2021 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111420-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1K1928	11/19/2021	11/20/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.6 %	50-150	"	"	"
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GBTEX+TMBs

Naphthalene	ND	0.00380	mg/kg	1	B1K1929	11/19/2021	11/19/2021	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	99.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.4 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

SEP-B01@3'

11/19/2021 2:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111420-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1K1928	11/19/2021	11/20/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.7 %	50-150	"	"	"
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GBTEX+TMBs

Naphthalene	ND	0.00380	mg/kg	1	B1K1929	11/19/2021	11/19/2021	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
Surrogate: Toluene-d8	99.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

SEP-B02@3'

11/19/2021 2:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111420-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1K1928	11/19/2021	11/20/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 81.3 % 50-150 " " "

GBTEX+TMBs

Naphthalene	ND		0.00380	mg/kg	1	B1K1929	11/19/2021	11/20/2021	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
Surrogate: Toluene-d8 98.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.5 % 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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

TB-BG01@2'

11/19/2021 2:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111420-06 (Soil)

Boron (DTPA Sorbitol)

Boron	1.39	0.201	mg/L	1	B1K2201	11/22/2021	11/22/2021
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Metals by Saturated Paste

Calcium	1.47	0.499	meq/L	10	[CALC]	11/22/2021	11/23/2021
Magnesium	1.72	0.823	"	"	"	"	"
Sodium	71.3	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.53		pH Units	1	B1K2204	11/22/2021	11/23/2021
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SAR by 20B Saturated Paste

SAR	56.5		SAR	1	B1K2202	11/22/2021	11/23/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.99	0.00500	mmhos/cm	1	B1K2203	11/22/2021	11/23/2021
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Total Metals by 6020B

Arsenic	4.35	0.0855	0.25	mg/Kg	5	L586516	11/23/2021	12/01/2021
Barium	58.7	0.171	1	"	20	"	"	"
Cadmium	0.862	0.0259	0.25	"	5	"	"	"
Copper	29.3	0.322	1	"	20	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

TB-BG01@2'

11/19/2021 2:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y111420-06 (Soil)

Total Metals by 6020B

Lead	58.3	0.124	1	mg/Kg	20	L586516	11/23/2021	12/01/2021	
Nickel	3.89	0.0633	0.25	"	5	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.45	0.0067	0.25	"	"	"	"	"	
Zinc	147	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L586644	11/19/2021	11/24/2021	
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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

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

TB-BG01@4'

11/19/2021 2:26:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111420-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.917	0.199	mg/L	1	B1K2201	11/22/2021	11/22/2021
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Metals by Saturated Paste

Calcium	0.983	0.499	meq/L	10	[CALC]	11/22/2021	11/23/2021
Magnesium	1.56	0.823	"	"	"	"	"
Sodium	47.9	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.64		pH Units	1	B1K2204	11/22/2021	11/23/2021
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SAR by 20B Saturated Paste

SAR	42.5		SAR	1	B1K2202	11/22/2021	11/23/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.29	0.00500	mmhos/cm	1	B1K2203	11/22/2021	11/23/2021
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Total Metals by 6020B

Arsenic	0.887	0.0855	0.25	mg/Kg	5	L586516	11/23/2021	12/01/2021
Barium	57.1	0.171	1	"	20	"	"	"
Cadmium	0.112	0.0259	0.25	"	5	"	"	"
Copper	8.21	0.0806	0.25	"	"	"	"	"

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

TB-BG01@4'

11/19/2021 2:26:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y111420-07 (Soil)

Total Metals by 6020B

Lead	6.51	0.031	0.25	mg/Kg	5	L586516	11/23/2021	12/01/2021	
Nickel	2.75	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0915	0.0067	0.25	"	"	"	"	"	J
Zinc	27.5	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.502	1.03	mg/Kg	2	L586644	11/19/2021	11/24/2021	
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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

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

TB-BG02@2'

11/19/2021 2:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111420-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.768		0.197	mg/L	1	B1K2201	11/22/2021	11/22/2021
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Metals by Saturated Paste

Calcium	27.0		0.499	meq/L	10	[CALC]	11/22/2021	11/23/2021
Magnesium	25.7		0.823	"	"	"	"	"
Sodium	72.3		0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.76			pH Units	1	B1K2204	11/22/2021	11/23/2021
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SAR by 20B Saturated Paste

SAR	14.1			SAR	1	B1K2202	11/22/2021	11/23/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	9.19		0.00500	mmhos/cm	1	B1K2203	11/22/2021	11/23/2021
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Total Metals by 6020B

Arsenic	2.46	0.0855	0.25	mg/Kg	5	L586516	11/23/2021	12/01/2021
Barium	222	0.854	5	"	100	"	"	"
Cadmium	0.252	0.0259	0.25	"	5	"	"	"
Copper	14.2	0.0806	0.25	"	"	"	"	"

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

TB-BG02@2'

11/19/2021 2:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y111420-08 (Soil)

Total Metals by 6020B

Lead	15.4	0.031	0.25	mg/Kg	5	L586516	11/23/2021	12/01/2021	
Nickel	7.55	0.0633	0.25	"	"	"	"	"	
Selenium	0.131	0.103	0.25	"	"	"	"	"	J
Silver	0.107	0.0067	0.25	"	"	"	"	"	J
Zinc	52.9	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L586644	11/19/2021	11/24/2021	
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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

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

TB-BG02@4'

11/19/2021 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111420-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.780	0.200	mg/L	1	B1K2201	11/22/2021	11/22/2021
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Metals by Saturated Paste

Calcium	16.0	0.499	meq/L	10	[CALC]	11/22/2021	11/23/2021
Magnesium	9.92	0.823	"	"	"	"	"
Sodium	44.0	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.70		pH Units	1	B1K2204	11/22/2021	11/23/2021
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SAR by 20B Saturated Paste

SAR	12.2		SAR	1	B1K2202	11/22/2021	11/23/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.07	0.00500	mmhos/cm	1	B1K2203	11/22/2021	11/23/2021
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Total Metals by 6020B

Arsenic	2.7	0.0855	0.25	mg/Kg	5	L586516	11/23/2021	12/01/2021
Barium	88.9	0.171	1	"	20	"	"	"
Cadmium	0.436	0.0259	0.25	"	5	"	"	"
Copper	23.9	0.0806	0.25	"	"	"	"	"

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

TB-BG02@4'

11/19/2021 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y111420-09 (Soil)

Total Metals by 6020B

Lead	27.5	0.124	1	mg/Kg	20	L586516	11/23/2021	12/01/2021	
Nickel	6.17	0.0633	0.25	"	5	"	"	"	
Selenium	0.124	0.103	0.25	"	"	"	"	"	J
Silver	0.236	0.0067	0.25	"	"	"	"	"	J
Zinc	76.4	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L586644	11/19/2021	11/24/2021	
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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

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

TB-BG03@2'

11/19/2021 2:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111420-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.198	mg/L	1	B1K2201	11/22/2021	11/22/2021
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Metals by Saturated Paste

Calcium	0.669	0.499	meq/L	10	[CALC]	11/22/2021	11/23/2021
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.09		pH Units	1	B1K2204	11/22/2021	11/23/2021
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SAR by 20B Saturated Paste

SAR	0.490		SAR	1	B1K2202	11/22/2021	11/23/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.113	0.00500	mmhos/cm	1	B1K2203	11/22/2021	11/23/2021
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Total Metals by 6020B

Arsenic	1.3	0.0855	0.25	mg/Kg	5	L586516	11/23/2021	12/01/2021
Barium	10.9	0.042	0.25	"	"	"	"	"
Cadmium	0.194	0.0259	0.25	"	"	"	"	"
Copper	5.47	0.0806	0.25	"	"	"	"	"

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

TB-BG03@2'

11/19/2021 2:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y111420-10 (Soil)

Total Metals by 6020B

Lead	14.2	0.031	0.25	mg/Kg	5	L586516	11/23/2021	12/01/2021	
Nickel	1.21	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.106	0.0067	0.25	"	"	"	"	"	J
Zinc	34.6	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L586644	11/19/2021	11/24/2021	
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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

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

TB-BG03@4'

11/19/2021 2:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111420-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.396	0.198	mg/L	1	B1K2210	11/22/2021	11/23/2021
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Metals by Saturated Paste

Calcium	5.75	0.499	meq/L	10	[CALC]	11/22/2021	11/23/2021
Magnesium	3.12	0.823	"	"	"	"	"
Sodium	17.7	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.84		pH Units	1	B1K2204	11/22/2021	11/23/2021
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SAR by 20B Saturated Paste

SAR	8.43		SAR	1	B1K2202	11/22/2021	11/23/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.25	0.00500	mmhos/cm	1	B1K2203	11/22/2021	11/23/2021
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Total Metals by 6020 B

Arsenic	0.697	0.0855	0.25	mg/Kg	5	L586517	11/23/2021	12/01/2021
Barium	13.4	0.042	0.25	"	"	"	"	"
Cadmium	0.331	0.0259	0.25	"	"	"	"	"
Copper	7.4	0.0806	0.25	"	"	"	"	"

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

TB-BG03@4'

11/19/2021 2:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y111420-11 (Soil)

Total Metals by 6020 B

Lead	5.93	0.031	0.25	mg/Kg	5	L586517	11/23/2021	12/01/2021	
Nickel	0.918	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.111	0.0067	0.25	"	"	"	"	"	J
Zinc	38.7	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L586646	11/19/2021	11/24/2021	
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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

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

TB-BG04@2'

11/19/2021 2:36:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111420-12 (Soil)

Boron (DTPA Sorbitol)

Boron	0.891	0.198	mg/L	1	B1K2210	11/22/2021	11/23/2021
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Metals by Saturated Paste

Calcium	2.84	0.499	meq/L	10	[CALC]	11/22/2021	11/23/2021
Magnesium	1.40	0.823	"	"	"	"	"
Sodium	4.20	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.93		pH Units	1	B1K2204	11/22/2021	11/23/2021
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SAR by 20B Saturated Paste

SAR	2.88		SAR	1	B1K2202	11/22/2021	11/23/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.698	0.00500	mmhos/cm	1	B1K2203	11/22/2021	11/23/2021
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Total Metals by 6020 B

Arsenic	10.7	0.0855	0.25	mg/Kg	5	L586517	11/23/2021	12/01/2021
Barium	143	0.171	1	"	20	"	"	"
Cadmium	4.22	0.0259	0.25	"	5	"	"	"
Copper	113	1.61	5	"	100	"	"	"

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

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

TB-BG04@2'

11/19/2021 2:36:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y111420-12 (Soil)

Total Metals by 6020 B

Lead	129	0.124	1	mg/Kg	20	L586517	11/23/2021	12/01/2021	
Nickel	8.53	0.0633	0.25	"	5	"	"	"	
Selenium	0.137	0.103	0.25	"	"	"	"	"	J
Silver	1.79	0.0067	0.25	"	"	"	"	"	
Zinc	437	2.14	10	"	20	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	2.44	5	mg/Kg	10	L586646	11/19/2021	11/24/2021	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

TB-BG04@4'

11/19/2021 2:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111420-13 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	1.99	mg/L	10	B1K2210	11/22/2021	11/23/2021
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Metals by Saturated Paste

Calcium	1.69	0.499	meq/L	"	[CALC]	11/22/2021	11/23/2021
Magnesium	ND	0.823	"	"	"	"	"
Sodium	5.35	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.68	pH Units	1	B1K2204	11/22/2021	11/23/2021
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SAR by 20B Saturated Paste

SAR	4.96	SAR	1	B1K2202	11/22/2021	11/23/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.657	0.00500	mmhos/cm	1	B1K2203	11/22/2021	11/23/2021
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Total Metals by 6020 B

Arsenic	1.67	0.0855	0.25	mg/Kg	5	L586517	11/23/2021	12/01/2021
Barium	198	0.854	5	"	100	"	"	"
Cadmium	0.217	0.0259	0.25	"	5	"	"	"
Copper	14.6	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

TB-BG04@4'

11/19/2021 2:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y111420-13 (Soil)

Total Metals by 6020 B

Lead	12.2	0.031	0.25	mg/Kg	5	L586517	11/23/2021	12/01/2021	
Nickel	11.4	0.0633	0.25	"	"	"	"	"	
Selenium	0.297	0.103	0.25	"	"	"	"	"	
Silver	0.0762	0.0067	0.25	"	"	"	"	"	J
Zinc	64.9	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	2.48	5.09	mg/Kg	1	L586646	11/19/2021	11/24/2021	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1928 - EPA 3550B										
Blank (B1K1928-BLK1)					Prepared: 11/19/2021 Analyzed: 11/19/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		97.6	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1928 - EPA 3550B										
LCS (B1K1928-BS1)					Prepared: 11/19/2021 Analyzed: 11/19/2021					
Diesel (C10-C28)	859	50.0	mg/kg	1000		85.9	70-130			
Residual Range Organics (C28-C40)	865	200	"	1000		86.5	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.6	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1928 - EPA 3550B

Matrix Spike (B1K1928-MS1)		Source: Y111417-01			Prepared: 11/19/2021 Analyzed: 11/19/2021					
Diesel (C10-C28)	793	50.0	mg/kg	1000	ND	79.3	70-130			
Residual Range Organics (C28-C40)	801	200	"	1000	ND	80.1	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1928 - EPA 3550B										
Matrix Spike Dup (B1K1928-MSD1)										
		Source: Y111417-01			Prepared: 11/19/2021 Analyzed: 11/19/2021					
Diesel (C10-C28)	856	50.0	mg/kg	1000	ND	85.6	70-130	7.65	35	
Residual Range Organics (C28-C40)	837	200	"	1000	ND	83.7	70-130	4.41	35	
Surrogate: o-Terphenyl	48		"	49.8		96.2	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1929 - EPA 5030 (soil)										
Blank (B1K1929-BLK1)					Prepared: 11/19/2021 Analyzed: 11/19/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	105		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1929 - EPA 5030 (soil)

LCS (B1K1929-BS1)

Prepared: 11/19/2021 Analyzed: 11/19/2021

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
Naphthalene	0.101	0.0100	"	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.204	0.00400	"	0.200		102	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
Toluene	0.100	0.00200	"	0.100		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1929 - EPA 5030 (soil)										
Matrix Spike (B1K1929-MS1)		Source: Y111417-01			Prepared: 11/19/2021 Analyzed: 11/19/2021					
1,2,4-Trimethylbenzene	0.0983	0.00200	mg/kg	0.100	0.000800	97.5	70-130			
Naphthalene	0.0981	0.0100	"	0.100	0.00324	94.9	70-130			
1,3,5-Trimethylbenzene	0.0976	0.00200	"	0.100	0.000420	97.2	70-130			
Benzene	0.0931	0.00200	"	0.100	ND	93.1	70-130			
Ethylbenzene	0.0970	0.00200	"	0.100	ND	97.0	70-130			
m,p-Xylene	0.193	0.00400	"	0.200	ND	96.7	70-130			
o-Xylene	0.0984	0.00200	"	0.100	ND	98.4	70-130			
Toluene	0.0925	0.00200	"	0.100	ND	92.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1929 - EPA 5030 (soil)										
Matrix Spike Dup (B1K1929-MSD1)	Source: Y111417-01				Prepared: 11/19/2021 Analyzed: 11/19/2021					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	0.000800	105	70-130	7.71	20	
Naphthalene	0.105	0.0100	"	0.100	0.00324	101	70-130	6.51	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	0.000420	105	70-130	7.68	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	7.92	20	
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	7.60	20	
m,p-Xylene	0.209	0.00400	"	0.200	ND	104	70-130	7.79	20	
o-Xylene	0.107	0.00200	"	0.100	ND	107	70-130	8.22	20	
Toluene	0.100	0.00200	"	0.100	ND	100	70-130	8.11	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K2203 - NO PREP

Blank (B1K2203-BLK1)

Prepared: 11/22/2021 Analyzed: 11/23/2021

Specific Conductance (EC) 0.00140 0.00500 mmhos/cm

Duplicate (B1K2203-DUP1)

Source: Y111414-01

Prepared: 11/22/2021 Analyzed: 11/23/2021

Specific Conductance (EC) 0.395 0.00500 mmhos/cm 0.414 4.92 25

Batch B1K2204 - NO PREP

Duplicate (B1K2204-DUP1)

Source: Y111413-10

Prepared: 11/22/2021 Analyzed: 11/23/2021

pH 8.30 pH Units 8.06 2.93 25

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

Total Metals by 6020 B - 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 L586517 - 3050B

MSD (L 87339-MSD-L586517)		Source: 87339			Prepared: 11/23/2021 Analyzed: 12/01/2021					
Zinc	71.7	0.534	mg/Kg	23.6	47.9	101	75-125	4.2	80	
Barium	68.2	0.085	"	4.73	63.6	97	75-125	19.2	80	
Cadmium	0.633	0.0259	"	0.473	0.203	134	75-125	7.5	80	*
Copper	19.1	0.0806	"	2.36	15.4	157	75-125	1.5	80	*
Lead	13.6	0.031	"	2.36	11.2	102	75-125	5.7	80	
Nickel	10.2	0.0633	"	2.36	7.23	126	75-125	8.4	80	*
Silver	0.455	0.0067	"	0.473	0.0304	96	75-125	6.3	80	
Selenium	2.47	0.103	"	4.73	<0.103	52	75-125	7.4	80	*
Arsenic	2.22	0.0855	"	2.36	0.738	63	75-125	0.4	80	*
MS (L 87339-MS-L586517)		Source: 87339			Prepared: 11/23/2021 Analyzed: 12/02/2021					
Barium	56.2	0.085	mg/Kg	4.99	63.6	NR	75-125			*
Silver	0.485	0.0067	"	0.499	0.0304	97	75-125			
Selenium	2.66	0.103	"	4.99	<0.103	53	75-125			*
Nickel	11.1	0.0633	"	2.5	7.23	155	75-125			*
Lead	14.4	0.031	"	2.5	11.2	128	75-125			*
Cadmium	0.683	0.0259	"	0.499	0.203	137	75-125			*
Zinc	74.8	0.534	"	25	47.9	108	75-125			
Arsenic	2.21	0.0855	"	2.5	0.738	59	75-125			*
Copper	18.8	0.0806	"	2.5	15.4	136	75-125			*
LCS (LCS-L586517)		Prepared: 11/23/2021 Analyzed: 12/01/2021								
Lead	2.43	0.031	mg/Kg	2.5		97	80-120			
Silver	0.475	0.0067	"	0.5		95	80-120			
Selenium	4.69	0.103	"	5		94	80-120			
Zinc	23.8	0.534	"	25		95	80-120			
Nickel	2.32	0.0633	"	2.5		93	80-120			

Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

Total Metals by 6020 B - 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 L586517 - 3050B

LCS (LCS-L586517)

Prepared: 11/23/2021 Analyzed: 12/01/2021

Copper	2.37	0.0806	mg/Kg	2.5		95	80-120			
Cadmium	0.501	0.0259	"	0.5		100	80-120			
Arsenic	2.29	0.0855	"	2.5		92	80-120			
Barium	4.78	0.042	"	5		96	80-120			

LRB (LRB-L586517)

Prepared: 11/23/2021 Analyzed: 12/01/2021

Zinc	ND	2.5	mg/Kg				-			
Arsenic	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Silver	ND	0.25	"				-			

Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

Total Metals by 6020B - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L586516 - 3050B										
MSD (L 87319-MSD-L586516)			Source: Y111420-10		Prepared: 11/23/2021 Analyzed: 12/01/2021					
Zinc	70.1	0.534	mg/Kg	24.5	34.6	145	75-125	13.3	80	*
Arsenic	4.46	0.0855	"	2.45	1.3	129	75-125	37.2	80	*
Barium	19.4	0.042	"	4.91	10.9	173	75-125	2.6	80	*
Cadmium	0.746	0.0259	"	0.491	0.194	152	75-125	6.5	80	*
Copper	14.1	0.0806	"	2.45	5.47	352	75-125	47.1	80	*
Lead	20	0.031	"	2.45	14.2	236	75-125	30.5	80	I*
Nickel	4.37	0.0633	"	2.45	1.21	129	75-125	22.9	80	*
Selenium	4.04	0.103	"	4.91	<0.103	82	75-125	8.2	80	
Silver	0.633	0.0067	"	0.491	0.106	129	75-125	19.4	80	*
MS (L 87319-MS-L586516)			Source: Y111420-10		Prepared: 11/23/2021 Analyzed: 12/01/2021					
Cadmium	0.699	0.0259	mg/Kg	0.459	0.194	152	75-125			*
Arsenic	3.06	0.0855	"	2.29	1.3	77	75-125			
Zinc	61.3	0.534	"	22.9	34.6	116	75-125			
Silver	0.521	0.0067	"	0.459	0.106	114	75-125			
Selenium	3.72	0.103	"	4.59	<0.103	81	75-125			
Nickel	3.47	0.0633	"	2.29	1.21	99	75-125			
Copper	8.72	0.0806	"	2.29	5.47	142	75-125			*
Barium	18.9	0.042	"	4.59	10.9	174	75-125			*
Lead	14.7	0.031	"	2.29	14.2	22	75-125			I*
LCS (LCS-L586516)			Prepared: 11/23/2021 Analyzed: 12/01/2021							
Lead	2.37	0.031	mg/Kg	2.5		95	80-120			
Arsenic	2.41	0.0855	"	2.5		96	80-120			
Zinc	22.9	0.534	"	25		92	80-120			
Silver	0.469	0.0067	"	0.5		94	80-120			
Selenium	4.77	0.103	"	5		95	80-120			

Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

Total Metals by 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L586516 - 3050B										
LCS (LCS-L586516)					Prepared: 11/23/2021 Analyzed: 12/01/2021					
Nickel	2.26	0.0633	mg/Kg	2.5		90	80-120			
Cadmium	0.472	0.0259	"	0.5		94	80-120			
Barium	4.76	0.042	"	5		95	80-120			
Copper	2.33	0.0806	"	2.5		93	80-120			
LRB (LRB-L586516)					Prepared: 11/23/2021 Analyzed: 12/01/2021					
Arsenic	ND	0.25	mg/Kg				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	0.0696	0.25	"				-			J
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Barium	0.055	0.25	"				-			J
Cadmium	ND	0.25	"				-			

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L586646 -										
DUP (L 87320-DUP)		Source: Y111420-11			Prepared: Analyzed: 11/24/2021					
Chromium, Hexavalent	ND	1.22	mg/Kg		<2.51	-		0	20	
MS (L 87320-MS)		Source: Y111420-11			Prepared: Analyzed: 11/24/2021					
Chromium, Hexavalent	6.57	1.24	mg/Kg	8.17	<1.24	80	75-125			
LCS (LCS)					Prepared: Analyzed: 11/24/2021					
Chromium, Hexavalent	6.71	0.244	mg/Kg	8		84	75-125			
LRB (LRB)					Prepared: Analyzed: 11/24/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 L586644 -										
DUP (L 87216-DUP)	Source: 87216				Prepared: Analyzed: 11/24/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		<0.500		-	0	20	
MS (L 87216-MS)	Source: 87216				Prepared: Analyzed: 11/24/2021					
Chromium, Hexavalent	4.93	0.488	mg/Kg	7.82	< 0.244	63	75-125			*

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

I* [Undefined]

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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



December 03, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - West Farms

Project Number - 90406875

Attached are your analytical results for KMG - West Farms received by Origins Laboratory, Inc. November 19, 2021. This project is associated with Origins project number Y111421-01.

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

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B04@4'	Y111421-01	Soil	November 19, 2021 13:11	11/19/2021 16:58
FL-GW01	Y111421-02	Water	November 19, 2021 13:45	11/19/2021 16:58

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

ORIGINS
LABORATORY, INC

www.originslaboratory.com

Y111421

page 1 of 1

Client: Mike Jahn
Address: West Farms
Telephone Number: 90406875
Email Address: M.Jahn@tasman-geo.com
Project Manager: Mike Jahn
Project Name: West Farms
Project Number: 90406875
Samples Collected By: M. Jahn

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #			Other	
FL-B04041	11/19/21	13:11	2	X					X				1	
FL-GW01	11/19/21	13:45	3	X					X				2	
													3	
													4	
													5	
													6	
													7	
													8	
													9	
													10	

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Background Time:
<u>[Signature]</u>	11/19/21		<u>[Signature]</u>	11/19/21	16:58	Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>

Date Results Needed

Temp Received- 4.9

Origins Laboratory, Inc.

[Signature]

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 711421

Client: Tasman

Client Project ID: West Farms

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 11/19/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid

☒ Water

Other: _____

(Describe)

Cooler Number/Temperature: 1,49.0 °C

°C

°C

°C

Thermometer ID: T003

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 Na ₂ AsO 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) [Signature]

Date/Time Reviewed 11/19/12

Origins Laboratory, Inc.

[Signature]

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

FL-B04@4'

11/19/2021 1:11:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111421-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.375	0.198	mg/L	1	B1K2210	11/22/2021	11/23/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1K1928	11/19/2021	11/20/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	0.0195	0.00200	mg/kg	1	B1K1929	11/19/2021	11/20/2021	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	6.89	0.200	"	"	"	"	"	
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

FL-B04@4'

11/19/2021 1:11:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111421-01 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene 127 % 70-130 B1K19 29 11/19/2021 11/20/2021

Metals by Saturated Paste

Calcium	4.78	0.499	meq/L	10	[CALC]	11/22/2021	11/23/2021
Magnesium	2.18	0.823	"	"	"	"	"
Sodium	6.13	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.129	0.00033	0.00067	mg/Kg	1	L586570	11/24/2021	11/24/2021
2-Methylnaphthalene	0.238	0.00039	0.00067	"	"	"	"	"
Acenaphthene	0.0712	0.0003	0.00067	"	"	"	"	"
Anthracene	0.0469	0.00033	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.0439	0.00041	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.0284	0.00014	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.0279	0.00021	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.00916	0.00013	0.00067	"	"	"	"	"
Chrysene	0.0441	0.00027	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	0.00234	0.00036	0.00067	"	"	"	"	"
Fluoranthene	0.15	0.00039	0.00067	"	"	"	"	"
Fluorene	0.0582	0.00029	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.00996	0.00029	0.00067	"	"	"	"	"
Naphthalene	0.00494	0.000467	0.00067	"	"	"	"	"

Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

FL-B04@4'

11/19/2021 1:11:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111421-01 (Soil)

PAH by 8270D SIM

Pyrene	0.126	0.00059	0.00067	mg/Kg	1	L586570	11/24/2021	11/24/2021
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Surrogate: 2-Fluorobiphenyl	58.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	74.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	42.6 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.63	pH Units	1	B1K2204	11/22/2021	11/23/2021
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SAR by 20B Saturated Paste

SAR	3.29	SAR	1	B1K2202	11/22/2021	11/23/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.25	0.00500	mmhos/cm	1	B1K2203	11/22/2021	11/23/2021
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Total Metals by 6020B

Arsenic	3.42	0.0855	0.25	mg/Kg	5	L586516	11/23/2021	12/01/2021
Barium	121	0.171	1	"	20	"	"	"
Cadmium	1.13	0.0259	0.25	"	5	"	"	"
Copper	36.5	0.322	1	"	20	"	"	"

Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

FL-B04@4'

11/19/2021 1:11:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111421-01 (Soil)

Total Metals by 6020B

Lead	34.8	0.124	1	mg/Kg	20	L586516	11/23/2021	12/01/2021	
Nickel	8.57	0.0633	0.25	"	5	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.377	0.0067	0.25	"	"	"	"	"	
Zinc	133	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.25	2.56	mg/Kg	5	L586644	11/19/2021	11/24/2021	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

FL-GW01

11/19/2021 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y111421-02 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	2.26	1.00	ug/L	1	B1K1907	11/19/2021	11/19/2021	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	U
Benzene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	22.0	1.00	"	"	"	"	"	
Naphthalene	8.13	4.00	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	88.7 %	70-130	"	"	"
Surrogate: Toluene-d8	112 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1907 - EPA 5030B (Water)										
Blank (B1K1907-BLK1)					Prepared: 11/19/2021 Analyzed: 11/19/2021					
1,2,4-Trimethylbenzene	ND	1.00	ug/L							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	4.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.5	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1907 - EPA 5030B (Water)										
LCS (B1K1907-BS1)					Prepared: 11/19/2021 Analyzed: 11/19/2021					
1,2,4-Trimethylbenzene	53.7	1.00	ug/L	50.0		107	70-130			
1,3,5-Trimethylbenzene	54.2	1.00	"	50.0		108	70-130			
Benzene	52.3	1.00	"	50.0		105	70-130			
Ethylbenzene	55.0	1.00	"	50.0		110	70-130			
m,p-Xylene	107	2.00	"	100		107	70-130			
Naphthalene	51.4	4.00	"	50.0		103	70-130			
o-Xylene	52.0	1.00	"	50.0		104	70-130			
Toluene	56.6	1.00	"	50.0		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	53		"	62.5		84.8	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1907 - EPA 5030B (Water)

Matrix Spike (B1K1907-MS1)		Source: Y111351-01			Prepared: 11/19/2021 Analyzed: 11/19/2021					
1,2,4-Trimethylbenzene	52.5	1.00	ug/L	50.0	ND	105	70-130			
1,3,5-Trimethylbenzene	52.6	1.00	"	50.0	ND	105	70-130			
Benzene	53.2	1.00	"	50.0	2.48	101	70-130			
Ethylbenzene	52.8	1.00	"	50.0	ND	106	70-130			
m,p-Xylene	102	2.00	"	100	ND	102	70-130			
Naphthalene	48.0	4.00	"	50.0	ND	95.9	70-130			
o-Xylene	50.8	1.00	"	50.0	ND	102	70-130			
Toluene	53.4	1.00	"	50.0	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.7	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1907 - EPA 5030B (Water)										
Matrix Spike Dup (B1K1907-MSD1)	Source: Y111351-01				Prepared: 11/19/2021 Analyzed: 11/19/2021					
1,2,4-Trimethylbenzene	53.2	1.00	ug/L	50.0	ND	106	70-130	1.40	20	
1,3,5-Trimethylbenzene	54.0	1.00	"	50.0	ND	108	70-130	2.72	20	
Benzene	54.6	1.00	"	50.0	2.48	104	70-130	2.61	20	
Ethylbenzene	55.0	1.00	"	50.0	ND	110	70-130	4.07	20	
m,p-Xylene	104	2.00	"	100	ND	104	70-130	2.06	20	
Naphthalene	48.7	4.00	"	50.0	ND	97.4	70-130	1.55	20	
o-Xylene	51.0	1.00	"	50.0	ND	102	70-130	0.334	20	
Toluene	55.0	1.00	"	50.0	ND	110	70-130	2.90	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.8	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		102	70-130			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1928 - EPA 3550B										
Blank (B1K1928-BLK1)					Prepared: 11/19/2021 Analyzed: 11/19/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		97.6	50-150			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1928 - EPA 3550B

LCS (B1K1928-BS1)

Prepared: 11/19/2021 Analyzed: 11/19/2021

Diesel (C10-C28)	859	50.0	mg/kg	1000		85.9	70-130			
Residual Range Organics (C28-C40)	865	200	"	1000		86.5	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.6	50-150			

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Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1928 - EPA 3550B

Matrix Spike (B1K1928-MS1)		Source: Y111417-01			Prepared: 11/19/2021 Analyzed: 11/19/2021					
Diesel (C10-C28)	793	50.0	mg/kg	1000	ND	79.3	70-130			
Residual Range Organics (C28-C40)	801	200	"	1000	ND	80.1	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1928 - EPA 3550B										
Matrix Spike Dup (B1K1928-MSD1)		Source: Y111417-01			Prepared: 11/19/2021 Analyzed: 11/19/2021					
Diesel (C10-C28)	856	50.0	mg/kg	1000	ND	85.6	70-130	7.65	35	
Residual Range Organics (C28-C40)	837	200	"	1000	ND	83.7	70-130	4.41	35	
Surrogate: o-Terphenyl	48		"	49.8		96.2	50-150			

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Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1929 - EPA 5030 (soil)										
Blank (B1K1929-BLK1)					Prepared: 11/19/2021 Analyzed: 11/19/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	105		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

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Project Number: 90406875
Project: KMG - West Farms

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 B1K1929 - EPA 5030 (soil)										
LCS (B1K1929-BS1)					Prepared: 11/19/2021 Analyzed: 11/19/2021					
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
Naphthalene	0.101	0.0100	"	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.204	0.00400	"	0.200		102	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
Toluene	0.100	0.00200	"	0.100		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1929 - EPA 5030 (soil)										
Matrix Spike (B1K1929-MS1)		Source: Y111417-01			Prepared: 11/19/2021 Analyzed: 11/19/2021					
1,2,4-Trimethylbenzene	0.0983	0.00200	mg/kg	0.100	0.000800	97.5	70-130			
Naphthalene	0.0981	0.0100	"	0.100	0.00324	94.9	70-130			
1,3,5-Trimethylbenzene	0.0976	0.00200	"	0.100	0.000420	97.2	70-130			
Benzene	0.0931	0.00200	"	0.100	ND	93.1	70-130			
Ethylbenzene	0.0970	0.00200	"	0.100	ND	97.0	70-130			
m,p-Xylene	0.193	0.00400	"	0.200	ND	96.7	70-130			
o-Xylene	0.0984	0.00200	"	0.100	ND	98.4	70-130			
Toluene	0.0925	0.00200	"	0.100	ND	92.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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 B1K1929 - EPA 5030 (soil)

Matrix Spike Dup (B1K1929-MSD1)		Source: Y111417-01			Prepared: 11/19/2021 Analyzed: 11/19/2021					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	0.000800	105	70-130	7.71	20	
Naphthalene	0.105	0.0100	"	0.100	0.00324	101	70-130	6.51	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	0.000420	105	70-130	7.68	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	7.92	20	
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	7.60	20	
m,p-Xylene	0.209	0.00400	"	0.200	ND	104	70-130	7.79	20	
o-Xylene	0.107	0.00200	"	0.100	ND	107	70-130	8.22	20	
Toluene	0.100	0.00200	"	0.100	ND	100	70-130	8.11	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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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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 B1K2202 - Default Prep Metals

Blank (B1K2202-BLK1)

Prepared: 11/22/2021 Analyzed: 11/23/2021

Calcium PPM	ND	10.0	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	0.800	10.0	"

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Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1K2203 - NO PREP										
Blank (B1K2203-BLK1)					Prepared: 11/22/2021 Analyzed: 11/23/2021					
Specific Conductance (EC)	0.00140	0.00500	mmhos/cm							
Duplicate (B1K2203-DUP1)					Source: Y111414-01 Prepared: 11/22/2021 Analyzed: 11/23/2021					
Specific Conductance (EC)	0.395	0.00500	mmhos/cm		0.414			4.92	25	
Batch B1K2204 - NO PREP										
Duplicate (B1K2204-DUP1)					Source: Y111413-10 Prepared: 11/22/2021 Analyzed: 11/23/2021					
pH	8.30		pH Units		8.06			2.93	25	

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Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L586570 - 3550B

MSD (L 85854-MSD-L586570)		Source: 85854			Prepared: 11/24/2021 Analyzed: 11/24/2021					
Benzo(a)pyrene	0.125	0.00014	mg/Kg	0.165	<0.000140	75.7	30-130	5.7	30	
1-Methylnaphthalene	0.119	0.00033	"	0.165	<0.000330	72.1	30-130	6	30	
2-Methylnaphthalene	0.111	0.00039	"	0.165	<0.000390	67.2	30-130	4.6	30	
Naphthalene	0.109	0.000467	"	0.165	<0.000467	66	30-130	5.6	30	
Anthracene	0.124	0.00033	"	0.165	<0.000330	75.1	30-130	4.9	30	
Indeno(1,2,3-cd)pyrene	0.126	0.00029	"	0.165	<0.000290	76.3	30-130	23.3	30	
Fluorene	0.121	0.00029	"	0.165	<0.000290	73.3	30-130	3.3	30	
Fluoranthene	0.122	0.00039	"	0.165	<0.000390	73.9	30-130	7.6	30	
Benzo(a)anthracene	0.122	0.00041	"	0.165	<0.000410	73.9	30-130	5.9	30	
Chrysene	0.123	0.00027	"	0.165	<0.000270	74.5	30-130	7.5	30	
Benzo(k)fluoranthene	0.0908	0.00013	"	0.165	<0.000130	55	30-130	25.4	30	
Benzo(b)fluoranthene	0.0829	0.00021	"	0.165	0.000298	50.2	30-130	12.2	30	
Acenaphthene	0.121	0.0003	"	0.165	<0.000300	73.3	30-130	2.5	30	
Dibenz(a,h)anthracene	0.145	0.00036	"	0.165	<0.000360	87.8	30-130	15.6	30	
Pyrene	0.119	0.00059	"	0.165	<0.000590	72.1	30-130	8.7	30	
Surrogate: 2-Fluorobiphenyl	61.8		"	0.33	190	61.8	33-115			
Surrogate: 4-Terphenyl-d14	73.9		"	0.33	220	73.9	33-122			
Surrogate: Nitrobenzene-d5	46		"	0.33	138	46	29-110			

MS (L 85854-MS-L586570)		Source: 85854			Prepared: 11/24/2021 Analyzed: 11/24/2021					
Dibenz(a,h)anthracene	0.124	0.00036	mg/Kg	0.164	<0.000360	75.6	30-130			
Fluoranthene	0.113	0.00039	"	0.164	<0.000390	68.9	30-130			
Fluorene	0.117	0.00029	"	0.164	<0.000290	71.3	30-130			
Indeno(1,2,3-cd)pyrene	0.0997	0.00029	"	0.164	<0.000290	60.7	30-130			
Naphthalene	0.103	0.000467	"	0.164	<0.000467	62.8	30-130			
Pyrene	0.109	0.00059	"	0.164	<0.000590	66.4	30-130			
Chrysene	0.114	0.00027	"	0.164	<0.000270	69.5	30-130			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L586570 - 3550B

MS (L 85854-MS-L586570)		Source: 85854			Prepared: 11/24/2021 Analyzed: 11/24/2021					
Benzo(a)anthracene	0.115	0.00041	mg/Kg	0.164	<0.000410	70.1	30-130			
Benzo(a)pyrene	0.118	0.00014	"	0.164	<0.000140	71.9	30-130			
Anthracene	0.118	0.00033	"	0.164	<0.000330	71.9	30-130			
Acenaphthene	0.118	0.0003	"	0.164	<0.000300	71.9	30-130			
2-Methylnaphthalene	0.106	0.00039	"	0.164	<0.000390	64.6	30-130			
Benzo(k)fluoranthene	0.0703	0.00013	"	0.164	<0.000130	42.8	30-130			
Benzo(b)fluoranthene	0.0733	0.00021	"	0.164	0.000298	44.6	30-130			
1-Methylnaphthalene	0.112	0.00033	"	0.164	<0.000330	68.2	30-130			
Surrogate: Nitrobenzene-d5	42.5		"	0.329	138	42.5	29-110			
Surrogate: 2-Fluorobiphenyl	58.3		"	0.329	190	58.3	33-115			
Surrogate: 4-Terphenyl-d14	67.4		"	0.329	220	67.4	33-122			

LCS (LCS-L586570)		Prepared: 11/24/2021 Analyzed: 11/24/2021								
Pyrene	0.115	0.00059	mg/Kg	0.167		68.8	30-130			
Anthracene	0.121	0.00033	"	0.167		72.4	30-130			
1-Methylnaphthalene	0.106	0.00033	"	0.167		63.4	30-130			
2-Methylnaphthalene	0.106	0.00039	"	0.167		63.4	30-130			
Acenaphthene	0.117	0.0003	"	0.167		70	30-130			
Indeno(1,2,3-cd)pyrene	0.112	0.00029	"	0.167		67	30-130			
Benzo(a)pyrene	0.12	0.00014	"	0.167		71.8	30-130			
Dibenz(a,h)anthracene	0.132	0.00036	"	0.167		79	30-130			
Fluorene	0.116	0.00029	"	0.167		69.4	30-130			
Benzo(a)anthracene	0.114	0.00041	"	0.167		68.2	30-130			
Naphthalene	0.106	0.000467	"	0.167		63.4	30-130			
Benzo(k)fluoranthene	0.0788	0.00013	"	0.167		47.1	30-130			
Chrysene	0.119	0.00027	"	0.167		71.2	30-130			
Benzo(b)fluoranthene	0.0736	0.00021	"	0.167		44	30-130			

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6855 West 119th Avenue
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Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L586570 - 3550B

LCS (LCS-L586570)

Prepared: 11/24/2021 Analyzed: 11/24/2021

Fluoranthene	0.119	0.00039	mg/Kg	0.167		71.2	30-130			
Surrogate: Nitrobenzene-d5	44.1		"	0.333		44.1	29-110			
Surrogate: 2-Fluorobiphenyl	62.7		"	0.333		62.7	33-115			
Surrogate: 4-Terphenyl-d14	73.5		"	0.333		73.5	33-122			

LRB (LRB-L586570)

Prepared: 11/24/2021 Analyzed: 11/24/2021

Pyrene	ND	0.00067	mg/Kg				-			
Naphthalene	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	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	41.1		"	0.333		41.1	29-110			
Surrogate: 4-Terphenyl-d14	63		"	0.333		63	33-122			
Surrogate: 2-Fluorobiphenyl	56.1		"	0.333		56.1	33-115			

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Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L586516 - 3050B										
MSD (L 87319-MSD-L586516)			Source: 87319		Prepared: 11/23/2021 Analyzed: 12/01/2021					
Lead	20	0.031	mg/Kg	2.45	14.2	236	75-125	30.5	80	I*
Zinc	70.1	0.534	"	24.5	34.6	145	75-125	13.3	80	*
Silver	0.633	0.0067	"	0.491	0.106	129	75-125	19.4	80	*
Nickel	4.37	0.0633	"	2.45	1.21	129	75-125	22.9	80	*
Copper	14.1	0.0806	"	2.45	5.47	352	75-125	47.1	80	*
Cadmium	0.746	0.0259	"	0.491	0.194	152	75-125	6.5	80	*
Barium	19.4	0.042	"	4.91	10.9	173	75-125	2.6	80	*
Arsenic	4.46	0.0855	"	2.45	1.3	129	75-125	37.2	80	*
Selenium	4.04	0.103	"	4.91	<0.103	82	75-125	8.2	80	
MS (L 87319-MS-L586516)			Source: 87319		Prepared: 11/23/2021 Analyzed: 12/01/2021					
Arsenic	3.06	0.0855	mg/Kg	2.29	1.3	77	75-125			
Zinc	61.3	0.534	"	22.9	34.6	116	75-125			
Silver	0.521	0.0067	"	0.459	0.106	114	75-125			
Selenium	3.72	0.103	"	4.59	<0.103	81	75-125			
Nickel	3.47	0.0633	"	2.29	1.21	99	75-125			
Lead	14.7	0.031	"	2.29	14.2	22	75-125			I*
Copper	8.72	0.0806	"	2.29	5.47	142	75-125			*
Barium	18.9	0.042	"	4.59	10.9	174	75-125			*
Cadmium	0.699	0.0259	"	0.459	0.194	152	75-125			*
LCS (LCS-L586516)			Prepared: 11/23/2021 Analyzed: 12/01/2021							
Arsenic	2.41	0.0855	mg/Kg	2.5		96	80-120			
Zinc	22.9	0.534	"	25		92	80-120			
Barium	4.76	0.042	"	5		95	80-120			
Copper	2.33	0.0806	"	2.5		93	80-120			
Lead	2.37	0.031	"	2.5		95	80-120			

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

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L586516 - 3050B

LCS (LCS-L586516)

Prepared: 11/23/2021 Analyzed: 12/01/2021

Nickel	2.26	0.0633	mg/Kg	2.5		90	80-120			
Selenium	4.77	0.103	"	5		95	80-120			
Cadmium	0.472	0.0259	"	0.5		94	80-120			
Silver	0.469	0.0067	"	0.5		94	80-120			

LRB (LRB-L586516)

Prepared: 11/23/2021 Analyzed: 12/01/2021

Arsenic	ND	0.25	mg/Kg				-			
Selenium	ND	0.25	"				-			
Barium	0.055	0.25	"				-			J
Cadmium	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Nickel	0.0696	0.25	"				-			J
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L586644 -										
DUP (L 87216-DUP)		Source: 87216			Prepared: Analyzed: 11/24/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		<0.500	-		0	20	
MS (L 87216-MS)		Source: 87216			Prepared: Analyzed: 11/24/2021					
Chromium, Hexavalent	4.93	0.488	mg/Kg	7.82	< 0.244	63	75-125			*
LCS (LCS)					Prepared: Analyzed: 11/24/2021					
Chromium, Hexavalent	6.47	0.244	mg/Kg	8		81	75-125			
LRB (LRB)					Prepared: Analyzed: 11/24/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West Farms

Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

I* [Undefined]

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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.



February 01, 2022

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - West farms 2-14A

Project Number - 90406875

Attached are your analytical results for KMG - West farms 2-14A received by Origins Laboratory, Inc. January 13, 2022. This project is associated with Origins project number Y201236-01.

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

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pit-B01@5'	Y201236-01	Soil	January 13, 2022 16:10	01/13/2022 17:33
Pit-N01@4'	Y201236-02	Soil	January 13, 2022 16:12	01/13/2022 17:33
Pit-S01@4'	Y201236-03	Soil	January 13, 2022 16:14	01/13/2022 17:33
Pit-E01@4'	Y201236-04	Soil	January 13, 2022 16:16	01/13/2022 17:33
Pit-W01@4'	Y201236-05	Soil	January 13, 2022 16:18	01/13/2022 17:33
PIT-GW01	Y201236-06	Water	January 13, 2022 16:00	01/13/2022 17:33

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.

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

[illegible]

Origins Laboratory, Inc.

Menk

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

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y201236

Client: Tasman

Client Project ID: West Farms 2-14A

Checklist Completed by: KH

Shipped Via: 410
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 1/13/22

Airbill #: NA

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

Cooler Number/Temperature: 115-60 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: TU03

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 checked="" type="checkbox"/>	<input 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"/>	clear nat
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 1/13/22

Origins Laboratory, Inc.

[Signature]

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-B01@5'

1/13/2022 4:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201236-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2A1332	01/13/2022	01/14/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 78.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2A1331	01/13/2022	01/13/2022	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	0.498	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
Surrogate: Toluene-d8 98.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-B01@5'

1/13/2022 4:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201236-01 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	0.000418	0.000364	0.00067	mg/Kg	1	L596558	01/27/2022	01/28/2022	J
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	62.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	74.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	60.1 %	29-110	"	"	"

Total Metals by 6020B

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-B01@5'

1/13/2022 4:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201236-01 (Soil)

Total Metals by 6020B

Selenium	0.205	0.103	0.25	mg/Kg	5	L596446	01/26/2022	01/28/2022	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-N01@4'
1/13/2022 4:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201236-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.99	1.99	mg/L	10	B2A1403	01/14/2022	01/17/2022
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	1140	25.0	mg/kg	1	B2A1332	01/13/2022	01/14/2022
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	" U

Surrogate: o-Terphenyl	71.7 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	22.7	2.00	mg/kg	1000	B2A1331	01/13/2022	01/14/2022
1,3,5-Trimethylbenzene	17.2	2.00	"	"	"	"	"
Benzene	0.00304	0.00200	"	1	"	"	01/14/2022
Ethylbenzene	1.47	0.0500	"	25	"	"	01/13/2022
Toluene	0.0595	0.0500	"	"	"	"	"
Xylenes, total	5.74	0.0500	"	"	"	"	"
Gasoline Range Hydrocarbons	686	200	"	1000	"	"	01/14/2022

Surrogate: 1,2-Dichloroethane-d4	128 %	70-130	"	"	01/13/2022
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	458 %	70-130	"	"	" S-04

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-N01@4'

1/13/2022 4:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201236-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.519	0.499	meq/L	10	[CALC]	01/14/2022	01/18/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	7.11	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	3.17	0.00364	0.0067	mg/Kg	10	L595258	01/19/2022	01/20/2022
2-Methylnaphthalene	4.49	0.00645	0.0067	"	"	"	"	"
Acenaphthene	0.224	0.00304	0.0067	"	"	"	"	"
Anthracene	0.0296	0.00334	0.0067	"	"	"	"	"
Benzo(a)anthracene	0.00857	0.00493	0.0067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"
Benzo(b)fluoranthene	0.00605	0.00585	0.0067	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"
Chrysene	0.00664	0.00624	0.0067	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"
Fluoranthene	0.0461	0.00394	0.0067	"	"	"	"	"
Fluorene	0.263	0.00286	0.0067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	"	"	"	"	"
Naphthalene	1.23	0.00484	0.0067	"	"	"	"	"
Pyrene	0.052	0.00643	0.0067	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	61 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	59.8 %		33-122			"	"	"

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

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-N01@4'
1/13/2022 4:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201236-02 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	62.8 %	29-110	L5952 58	01/19/2022	01/20/2022
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pH in Soil by 9045D

pH	7.77	pH Units	1	B2A1420	01/14/2022	01/18/2022
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SAR by 20B Saturated Paste

SAR	11.8	SAR	1	B2A1416	01/14/2022	01/18/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.648	0.00500	mmhos/cm	1	B2A1405	01/14/2022	01/18/2022
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Total Metals by 6020B

Arsenic	1.13	0.0855	0.25	mg/Kg	5	L594832	01/17/2022	01/19/2022
Barium	138	0.042	0.25	"	"	"	"	"
Cadmium	0.222	0.0259	0.25	"	"	"	"	" J
Copper	14.8	0.0806	0.25	"	"	"	"	"
Lead	11.4	0.031	0.25	"	"	"	"	"
Nickel	9.72	0.0633	0.25	"	"	"	"	"
Selenium	0.315	0.103	0.25	"	"	"	"	"
Silver	0.0717	0.0067	0.25	"	"	"	"	" J
Zinc	73.6	0.534	2.5	"	"	"	"	"

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

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-N01@4'

1/13/2022 4:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201236-02 (Soil)

Total Metals by 7196A

Chromium, Hexavalent	ND	2.44	5	mg/Kg	10	L595625	01/13/2022	01/24/2022
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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

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-S01@4'

1/13/2022 4:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201236-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	180		25.0	mg/kg	1	B2A1332	01/13/2022	01/14/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

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

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.389		0.0500	mg/kg	25	B2A1331	01/13/2022	01/13/2022	
1,3,5-Trimethylbenzene	0.00508		0.00200	"	1	"	"	01/14/2022	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.00618		0.00200	"	"	"	"	"	
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	0.00524		0.00200	"	"	"	"	"	
Xylenes, total	0.0625		0.0500	"	25	"	"	01/13/2022	
Gasoline Range Hydrocarbons	1030		200	"	1000	"	"	01/14/2022	

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " 01/13/2022
Surrogate: Toluene-d8 98.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 216 % 70-130 " " " S-04

PAH by 8270D SIM

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-S01@4'

1/13/2022 4:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201236-03 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	0.562	0.00182	0.00335	mg/Kg	5	L596558	01/27/2022	01/28/2022	
2-Methylnaphthalene	0.73	0.00323	0.00335	"	"	"	"	"	
Acenaphthene	0.0615	0.00152	0.00335	"	"	"	"	"	
Anthracene	0.00683	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	0.00273	0.00247	0.00335	"	"	"	"	"	J
Benzo(a)pyrene	0.00501	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	0.00487	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.00608	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	0.0163	0.00197	0.00335	"	"	"	"	"	
Fluorene	0.0787	0.00143	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Pyrene	0.0154	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	56.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	60.6 %	29-110	"	"	"

Total Metals by 6020B

Selenium	0.438	0.103	0.25	mg/Kg	5	L596446	01/26/2022	01/28/2022
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Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-E01@4'
1/13/2022 4:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201236-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2A1332	01/13/2022	01/14/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 71.3 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.261	0.0500	mg/kg	25	B2A1331	01/13/2022	01/13/2022	
1,3,5-Trimethylbenzene	ND	0.00200	"	1	"	"	01/14/2022	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.00572	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	207	5.00	"	25	"	"	01/13/2022	

Surrogate: 1,2-Dichloroethane-d4 89.0 % 70-130 " " "
Surrogate: Toluene-d8 96.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 124 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-E01@4'

1/13/2022 4:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201236-04 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	0.754	0.00182	0.00335	mg/Kg	5	L596558	01/27/2022	01/28/2022
2-Methylnaphthalene	1.65	0.00323	0.00335	"	"	"	"	"
Acenaphthene	0.0609	0.00152	0.00335	"	"	"	"	"
Anthracene	ND	0.00167	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"
Chrysene	ND	0.00312	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"
Fluorene	0.103	0.00143	0.00335	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"
Pyrene	ND	0.00322	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	65.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	87.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	76 %	29-110	"	"	"

Total Metals by 6020B

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-E01@4'

1/13/2022 4:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201236-04 (Soil)

Total Metals by 6020B

Selenium	0.372	0.103	0.25	mg/Kg	5	L596446	01/26/2022	01/28/2022
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-W01@4'
1/13/2022 4:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201236-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	849		25.0	mg/kg	1	B2A1332	01/13/2022	01/14/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 74.1 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	2.56		0.0500	mg/kg	25	B2A1331	01/13/2022	01/13/2022	
1,3,5-Trimethylbenzene	0.00488		0.00200	"	1	"	"	01/14/2022	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.00474		0.00200	"	"	"	"	"	
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	0.00248		0.00200	"	"	"	"	"	
Xylenes, total	0.0143		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	3830		200	"	1000	"	"	01/14/2022	

Surrogate: 1,2-Dichloroethane-d4 90.4 % 70-130 " " 01/13/2022
Surrogate: Toluene-d8 100 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 388 % 70-130 " " "

PAH by 8270D SIM

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-W01@4'
1/13/2022 4:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201236-05 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	2.05	0.00364	0.0067	mg/Kg	10	L596558	01/27/2022	01/28/2022
2-Methylnaphthalene	2.63	0.00645	0.0067	"	"	"	"	"
Acenaphthene	0.238	0.00304	0.0067	"	"	"	"	"
Anthracene	0.0981	0.00334	0.0067	"	"	"	"	"
Benzo(a)anthracene	0.0575	0.00493	0.0067	"	"	"	"	"
Benzo(a)pyrene	0.0265	0.00468	0.0067	"	"	"	"	"
Benzo(b)fluoranthene	0.0263	0.00585	0.0067	"	"	"	"	"
Benzo(k)fluoranthene	0.0136	0.00437	0.0067	"	"	"	"	"
Chrysene	0.0519	0.00624	0.0067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"
Fluoranthene	0.283	0.00394	0.0067	"	"	"	"	"
Fluorene	0.292	0.00286	0.0067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	"	"	"	"	"
Pyrene	0.214	0.00643	0.0067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	62.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	66.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	104 %	29-110	"	"	"

Total Metals by 6020B

Selenium	0.467	0.103	0.25	mg/Kg	5	L596446	01/26/2022	01/28/2022
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Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

PIT-GW01

1/13/2022 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y201236-06 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	80.5	1.00	ug/L	1	B2A1333	01/13/2022	01/14/2022	
1,3,5-Trimethylbenzene	21.2	1.00	"	"	"	"	"	
Benzene	3.17	1.00	"	"	"	"	"	
Ethylbenzene	13.4	1.00	"	"	"	"	"	
Naphthalene	5.23	4.00	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	U
Xylenes, total	94.8	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	99.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130	"	"	"

Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2A1331 - EPA 5030 (soil)										
Blank (B2A1331-BLK1)					Prepared: 01/13/2022 Analyzed: 01/13/2022					
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	0.0100	"							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		92.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2A1331 - EPA 5030 (soil)										
LCS (B2A1331-BS1)					Prepared: 01/13/2022 Analyzed: 01/13/2022					
1,2,4-Trimethylbenzene	0.0917	0.00200	mg/kg	0.100		91.7	70-130			
1,3,5-Trimethylbenzene	0.0911	0.00200	"	0.100		91.1	70-130			
Benzene	0.0990	0.00200	"	0.100		99.0	70-130			
Ethylbenzene	0.0907	0.00200	"	0.100		90.7	70-130			
Naphthalene	0.0987	0.0100	"	0.100		98.7	70-130			
Toluene	0.0962	0.00200	"	0.100		96.2	70-130			
o-Xylene	0.0965	0.00200	"	0.100		96.5	70-130			
m,p-Xylene	0.182	0.00400	"	0.200		91.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2A1331 - EPA 5030 (soil)										
Matrix Spike (B2A1331-MS1)		Source: Y201235-01			Prepared: 01/13/2022 Analyzed: 01/13/2022					
1,2,4-Trimethylbenzene	0.0949	0.00200	mg/kg	0.100	ND	94.9	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130			
Benzene	0.0948	0.00200	"	0.100	0.00110	93.7	70-130			
Ethylbenzene	0.453	0.00200	"	0.100	0.00292	450	70-130			QM-07
Naphthalene	0.0352	0.0100	"	0.100	0.00596	29.3	70-130			QM-07
Toluene	0.143	0.00200	"	0.100	0.00770	136	70-130			QM-07
o-Xylene	0.329	0.00200	"	0.100	0.00302	326	70-130			QM-07
m,p-Xylene	0.806	0.00400	"	0.200	0.00910	399	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		121	70-130			
Surrogate: Toluene-d8	0.21		"	0.125		171	70-130			QM-07
Surrogate: 4-Bromofluorobenzene	0.31		"	0.125		249	70-130			QM-07

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2A1331 - EPA 5030 (soil)										
Matrix Spike Dup (B2A1331-MSD1)		Source: Y201235-01			Prepared: 01/13/2022 Analyzed: 01/13/2022					
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130	12.7	20	
1,3,5-Trimethylbenzene	0.126	0.00200	"	0.100	ND	126	70-130	12.9	20	
Benzene	0.0958	0.00200	"	0.100	0.00110	94.7	70-130	1.03	20	
Ethylbenzene	0.526	0.00200	"	0.100	0.00292	523	70-130	15.0	20	QM-07
Naphthalene	0.0423	0.0100	"	0.100	0.00596	36.3	70-130	18.3	20	QM-07
Toluene	0.161	0.00200	"	0.100	0.00770	154	70-130	11.7	20	QM-07
o-Xylene	0.359	0.00200	"	0.100	0.00302	356	70-130	8.68	20	QM-07
m,p-Xylene	0.931	0.00400	"	0.200	0.00910	461	70-130	14.3	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		126	70-130			
Surrogate: Toluene-d8	0.23		"	0.125		186	70-130			QM-07
Surrogate: 4-Bromofluorobenzene	0.30		"	0.125		241	70-130			QM-07

Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2A1332 - EPA 3550B										
Blank (B2A1332-BLK1)					Prepared: 01/13/2022 Analyzed: 01/14/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	8.9		"	24.9		35.7	50-150			J-02

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2A1332 - EPA 3550B

LCS (B2A1332-BS1)

Prepared: 01/13/2022 Analyzed: 01/14/2022

Diesel (C10-C28)	889	50.0	mg/kg	1000		88.9	70-130			
Residual Range Organics (C28-C40)	751	200	"	1000		75.1	70-130			
Surrogate: o-Terphenyl	37		"	49.8		74.6	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2A1332 - EPA 3550B

Matrix Spike (B2A1332-MS1)		Source: Y201236-01			Prepared: 01/13/2022 Analyzed: 01/14/2022					
Diesel (C10-C28)	891	50.0	mg/kg	1000	ND	89.1	70-130			
Residual Range Organics (C28-C40)	726	200	"	1000	ND	72.6	70-130			
Surrogate: o-Terphenyl	38		"	49.8		77.2	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2A1332 - EPA 3550B										
Matrix Spike Dup (B2A1332-MSD1)										
					Source: Y201236-01					
					Prepared: 01/13/2022		Analyzed: 01/14/2022			
Diesel (C10-C28)	873	50.0	mg/kg	1000	ND	87.3	70-130	2.05	35	
Residual Range Organics (C28-C40)	713	200	"	1000	ND	71.3	70-130	1.76	35	
Surrogate: o-Terphenyl	45		"	49.8		90.5	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2A1333 - EPA 5030B (Water)										
Blank (B2A1333-BLK1)					Prepared: 01/13/2022 Analyzed: 01/14/2022					
1,2,4-Trimethylbenzene	ND	1.00	ug/L							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	4.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.5	70-130			

Origins Laboratory, Inc.



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Mike Jahn
Project Number: 90406875
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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2A1333 - EPA 5030B (Water)										
LCS (B2A1333-BS1)					Prepared: 01/13/2022 Analyzed: 01/14/2022					
1,2,4-Trimethylbenzene	57.6	1.00	ug/L	50.0		115	70-130			
1,3,5-Trimethylbenzene	53.7	1.00	"	50.0		107	70-130			
Benzene	55.8	1.00	"	50.0		112	70-130			
Ethylbenzene	55.8	1.00	"	50.0		112	70-130			
m,p-Xylene	109	2.00	"	100		109	70-130			
Naphthalene	58.1	4.00	"	50.0		116	70-130			
o-Xylene	58.5	1.00	"	50.0		117	70-130			
Toluene	54.8	1.00	"	50.0		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.1	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2A1333 - EPA 5030B (Water)										
Matrix Spike (B2A1333-MS1)		Source: Y201236-06			Prepared: 01/13/2022 Analyzed: 01/14/2022					
1,2,4-Trimethylbenzene	73.0	1.00	ug/L	50.0	80.5	NR	70-130			QM-07
1,3,5-Trimethylbenzene	18.9	1.00	"	50.0	21.2	NR	70-130			QM-07
Benzene	2.17	1.00	"	50.0	3.17	NR	70-130			QM-07
Ethylbenzene	11.1	1.00	"	50.0	13.4	NR	70-130			QM-07
m,p-Xylene	79.8	2.00	"	100	94.8	NR	70-130			QM-07
Naphthalene	5.55	4.00	"	50.0	5.23	0.640	70-130			QM-07
o-Xylene	ND	1.00	"	50.0	ND		70-130			QM-07, U
Toluene	ND	1.00	"	50.0	ND		70-130			QM-07, U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.2	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2A1333 - EPA 5030B (Water)										
Matrix Spike Dup (B2A1333-MSD1)	Source: Y201236-06				Prepared: 01/13/2022 Analyzed: 01/14/2022					
1,2,4-Trimethylbenzene	78.5	1.00	ug/L	50.0	80.5	NR	70-130	7.25	20	QM-07
1,3,5-Trimethylbenzene	20.2	1.00	"	50.0	21.2	NR	70-130	6.74	20	QM-07
Benzene	2.65	1.00	"	50.0	3.17	NR	70-130	19.9	20	QM-07
Ethylbenzene	12.3	1.00	"	50.0	13.4	NR	70-130	10.7	20	QM-07
m,p-Xylene	89.2	2.00	"	100	94.8	NR	70-130	11.1	20	QM-07
Naphthalene	5.75	4.00	"	50.0	5.23	1.04	70-130	3.54	20	QM-07
o-Xylene	ND	1.00	"	50.0	ND		70-130		20	QM-07, U
Toluene	ND	1.00	"	50.0	ND		70-130		20	QM-07, U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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 B2A1405 - NO PREP

Blank (B2A1405-BLK1)

Prepared: 01/14/2022 Analyzed: 01/18/2022

Specific Conductance (EC) 0.000900 0.00500 mmhos/cm

Duplicate (B2A1405-DUP1)

Source: Y201234-01

Prepared: 01/14/2022 Analyzed: 01/18/2022

Specific Conductance (EC) 12.4 0.00500 mmhos/cm 12.3 0.272 25

Batch B2A1420 - NO PREP

Duplicate (B2A1420-DUP1)

Source: Y201234-01

Prepared: 01/14/2022 Analyzed: 01/18/2022

pH 7.19 pH Units 7.33 1.93 25

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L595258 - 3550B

MSD (L 93203-MSD-L595258)		Source: 93203			Prepared: 01/19/2022 Analyzed: 01/20/2022					
Benzo(b)fluoranthene	0.0865	0.000585	mg/Kg	0.165	93203	52.4	30-130	22.1	30	
1-Methylnaphthalene	0.228	0.000364	"	0.165	0.185	26	30-130	8.6	30	*
2-Methylnaphthalene	0.409	0.000645	"	0.165	0.416	NR	30-130	13.8	30	*
Naphthalene	0.165	0.000484	"	0.165	0.097	41.2	30-130	10.8	30	
Benzo(a)anthracene	0.0996	0.000493	"	0.165	0.00057	60.3	30-130	2.9	30	
Indeno(1,2,3-cd)pyrene	0.154	0.000627	"	0.165	93203	93.3	30-130	0.6	30	
Fluorene	0.123	0.000286	"	0.165	0.0465	46.3	30-130	5	30	
Fluoranthene	0.101	0.000394	"	0.165	0.000825	60.7	30-130	2.9	30	
Anthracene	0.0706	0.000334	"	0.165	0.000801	42.3	30-130	4.9	30	
Chrysene	0.0981	0.000624	"	0.165	0.00307	57.5	30-130	0.6	30	
Benzo(k)fluoranthene	0.092	0.000437	"	0.165	93203	55.7	30-130	7.6	30	
Acenaphthene	0.106	0.000304	"	0.165	0.0296	46.3	30-130	3.8	30	
Benzo(a)pyrene	0.107	0.000468	"	0.165	93203	64.8	30-130	4.7	30	
Dibenz(a,h)anthracene	0.107	0.000614	"	0.165	93203	64.8	30-130	1.8	30	
Pyrene	0.102	0.000643	"	0.165	0.00416	59.2	30-130	1.9	30	
Surrogate: 2-Fluorobiphenyl	50.3		"	0.33	155	50.3	33-115			
Surrogate: 4-Terphenyl-d14	62.7		"	0.33	197	62.7	33-122			
Surrogate: Nitrobenzene-d5	40.3		"	0.33	120	40.3	29-110			

MS (L 93203-MS-L595258)		Source: 93203			Prepared: 01/19/2022 Analyzed: 01/20/2022					
Dibenz(a,h)anthracene	0.109	0.000614	mg/Kg	0.163	93203	66.8	30-130			
Fluoranthene	0.104	0.000394	"	0.163	0.000825	63.2	30-130			
Fluorene	0.117	0.000286	"	0.163	0.0465	43.2	30-130			
Indeno(1,2,3-cd)pyrene	0.153	0.000627	"	0.163	93203	93.8	30-130			
Naphthalene	0.148	0.000484	"	0.163	0.097	31.2	30-130			
Pyrene	0.104	0.000643	"	0.163	0.00416	61.2	30-130			
Chrysene	0.0987	0.000624	"	0.163	0.00307	58.6	30-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L595258 - 3550B

MS (L 93203-MS-L595258)		Source: 93203			Prepared: 01/19/2022 Analyzed: 01/20/2022					
Benzo(a)anthracene	0.0967	0.000493	mg/Kg	0.163	0.00057	59.3	30-130			
Benzo(a)pyrene	0.102	0.000468	"	0.163	93203	62.5	30-130			
Anthracene	0.0672	0.000334	"	0.163	0.000801	40.7	30-130			
Acenaphthene	0.102	0.000304	"	0.163	0.0296	44.4	30-130			
2-Methylnaphthalene	0.356	0.000645	"	0.163	0.416	NR	30-130			*
Benzo(k)fluoranthene	0.0852	0.000437	"	0.163	93203	52.2	30-130			
1-Methylnaphthalene	0.209	0.000364	"	0.163	0.185	14.7	30-130			*
Benzo(b)fluoranthene	0.108	0.000585	"	0.163	93203	66.2	30-130			
Surrogate: Nitrobenzene-d5	35.4		"	0.327	120	35.4	29-110			
Surrogate: 2-Fluorobiphenyl	45.2		"	0.327	155	45.2	33-115			
Surrogate: 4-Terphenyl-d14	59.9		"	0.327	197	59.9	33-122			

LCS (LCS-L595258)

Prepared: 01/19/2022 Analyzed: 01/20/2022

Chrysene	0.104	0.000624	mg/Kg	0.167		62.2	30-130
Pyrene	0.114	0.000643	"	0.167		68.2	30-130
Fluoranthene	0.114	0.000394	"	0.167		68.2	30-130
Fluorene	0.102	0.000286	"	0.167		61	30-130
Indeno(1,2,3-cd)pyrene	0.128	0.000627	"	0.167		76.6	30-130
Benzo(k)fluoranthene	0.111	0.000437	"	0.167		66.4	30-130
Benzo(b)fluoranthene	0.108	0.000585	"	0.167		64.6	30-130
Naphthalene	0.0901	0.000484	"	0.167		53.9	30-130
Benzo(a)anthracene	0.1	0.000493	"	0.167		59.8	30-130
2-Methylnaphthalene	0.092	0.000645	"	0.167		55	30-130
Dibenz(a,h)anthracene	0.0947	0.000614	"	0.167		56.7	30-130
1-Methylnaphthalene	0.0915	0.000364	"	0.167		54.7	30-130
Benzo(a)pyrene	0.11	0.000468	"	0.167		65.8	30-130
Anthracene	0.112	0.000334	"	0.167		67	30-130

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L595258 - 3550B

LCS (LCS-L595258)

Prepared: 01/19/2022 Analyzed: 01/20/2022

Acenaphthene	0.1	0.000304	mg/Kg	0.167		59.8	30-130			
Surrogate: Nitrobenzene-d5	42.6		"	0.333		42.6	29-110			
Surrogate: 4-Terphenyl-d14	64.8		"	0.333		64.8	33-122			
Surrogate: 2-Fluorobiphenyl	49.5		"	0.333		49.5	33-115			

LRB (LRB-L595258)

Prepared: 01/19/2022 Analyzed: 01/20/2022

Benzo(a)anthracene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	51.6		"	0.333		51.6	33-115			
Surrogate: 4-Terphenyl-d14	64.5		"	0.333		64.5	33-122			
Surrogate: Nitrobenzene-d5	46.2		"	0.333		46.2	29-110			

Batch L596558 - 3550B

MSD (L 99694-MSD-L596558)

Source: Y201236-03

Prepared: 01/27/2022 Analyzed: 01/28/2022

Origins Laboratory, Inc.

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L596558 - 3550B

MSD (L 99694-MSD-L596558)		Source: Y201236-03			Prepared: 01/27/2022 Analyzed: 01/28/2022					
Anthracene	0.0955	0.00167	mg/Kg	0.166	0.00683	53.4	30-130	16.7	30	
1-Methylnaphthalene	0.805	0.00182	"	0.166	0.562	146	30-130	45.5	30	*
2-Methylnaphthalene	1.07	0.00323	"	0.166	0.73	205	30-130	26.7	30	*
Acenaphthene	0.153	0.00152	"	0.166	0.0615	55.1	30-130	28	30	
Benzo(a)anthracene	0.101	0.00247	"	0.166	0.00273	60.8	30-130	15.5	30	
Benzo(a)pyrene	0.107	0.00234	"	0.166	0.00501	61.4	30-130	8.9	30	
Benzo(b)fluoranthene	0.064	0.00293	"	0.166	0.00487	35.6	30-130	28	30	
Benzo(k)fluoranthene	0.0597	0.00219	"	0.166	99694	35.9	30-130	32.7	30	
Chrysene	0.0999	0.00312	"	0.166	0.00608	56.5	30-130	21.5	30	
Dibenz(a,h)anthracene	0.0666	0.00307	"	0.166	99694	40.1	30-130	3.6	30	
Fluoranthene	0.104	0.00197	"	0.166	0.0163	52.8	30-130	29.5	30	
Fluorene	0.188	0.00143	"	0.166	0.0787	65.8	30-130	30.2	30	
Indeno(1,2,3-cd)pyrene	0.0589	0.00314	"	0.166	99694	35.4	30-130	2.4	30	
Pyrene	0.115	0.00322	"	0.166	0.0154	60	30-130	21	30	
Surrogate: 2-Fluorobiphenyl	58.6		"	0.331	186	58.6	33-115			
Surrogate: 4-Terphenyl-d14	69.7		"	0.331	210	69.7	33-122			
Surrogate: Nitrobenzene-d5	65.5		"	0.331	200	65.5	29-110			

MS (L 99694-MS-L596558)		Source: Y201236-03			Prepared: 01/27/2022 Analyzed: 01/28/2022					
Chrysene	0.124	0.00312	mg/Kg	0.164	0.00706	71.9	30-130			
Benzo(a)pyrene	0.117	0.00234	"	0.164	0.00638	68.2	30-130			
Pyrene	0.142	0.00322	"	0.164	0.017	77.1	30-130			
Indeno(1,2,3-cd)pyrene	0.0575	0.00314	"	0.164	99694	35	30-130			
Fluorene	0.255	0.00143	"	0.164	0.0642	108	30-130			
Fluoranthene	0.14	0.00197	"	0.164	0.00752	75.4	30-130			
Benzo(b)fluoranthene	0.0849	0.00293	"	0.164	0.00765	48.7	30-130			
Benzo(k)fluoranthene	0.0831	0.00219	"	0.164	0.00234	50.6	30-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L596558 - 3550B

MS (L 99694-MS-L596558)		Source: Y201236-03			Prepared: 01/27/2022 Analyzed: 01/28/2022					
1-Methylnaphthalene	1.28	0.00182	mg/Kg	0.164	0.489	438	30-130			*
Benzo(a)anthracene	0.118	0.00247	"	0.164	0.00512	71.9	30-130			
Anthracene	0.113	0.00167	"	0.164	0.00564	64.7	30-130			
Acenaphthene	0.203	0.00152	"	0.164	0.0446	86.2	30-130			
2-Methylnaphthalene	1.4	0.00323	"	0.164	0.574	409	30-130			*
Dibenz(a,h)anthracene	0.0691	0.00307	"	0.164	99694	42.1	30-130			
Surrogate: Nitrobenzene-d5	81.1		"	0.329	200	81.1	29-110			
Surrogate: 4-Terphenyl-d14	83.5		"	0.329	210	83.5	33-122			
Surrogate: 2-Fluorobiphenyl	71.1		"	0.329	186	71.1	33-115			

LCS (LCS-L596558)		Prepared: 01/27/2022 Analyzed: 01/28/2022								
Anthracene	0.1	0.000334	mg/Kg	0.167		59.8	30-130			
Dibenz(a,h)anthracene	0.104	0.000614	"	0.167		62.2	30-130			
Pyrene	0.113	0.000643	"	0.167		67.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0885	0.000627	"	0.167		52.9	30-130			
Fluoranthene	0.114	0.000394	"	0.167		68.2	30-130			
Chrysene	0.117	0.000624	"	0.167		70	30-130			
Benzo(k)fluoranthene	0.104	0.000437	"	0.167		62.2	30-130			
Benzo(b)fluoranthene	0.108	0.000585	"	0.167		64.6	30-130			
1-Methylnaphthalene	0.093	0.000364	"	0.167		55.6	30-130			
Benzo(a)anthracene	0.118	0.000493	"	0.167		70.6	30-130			
Acenaphthene	0.0923	0.000304	"	0.167		55.2	30-130			
2-Methylnaphthalene	0.0946	0.000645	"	0.167		56.6	30-130			
Benzo(a)pyrene	0.124	0.000468	"	0.167		74.2	30-130			
Fluorene	0.102	0.000286	"	0.167		61	30-130			
Surrogate: 4-Terphenyl-d14	70.2		"	0.333		70.2	33-122			
Surrogate: Nitrobenzene-d5	59.7		"	0.333		59.7	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

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L596558 - 3550B										
LCS (LCS-L596558)					Prepared: 01/27/2022 Analyzed: 01/28/2022					
Surrogate: 2-Fluorobiphenyl	58.2		mg/Kg	0.333		58.2	33-115			
LRB (LRB-L596558)					Prepared: 01/27/2022 Analyzed: 01/28/2022					
Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	54.6		"	0.333		54.6	29-110			
Surrogate: 4-Terphenyl-d14	66.6		"	0.333		66.6	33-122			
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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L594832 - 3050B										
MSD (L 96445-MSD-L594832)			Source: 96445		Prepared: 01/17/2022 Analyzed: 01/19/2022					
Arsenic	3.45	0.0855	mg/Kg	2.5	2.21	50	75-125	10.9	80	*
Selenium	3.35	0.103	"	5	0.332	60	75-125	3.2	80	*
Silver	0.515	0.0067	"	0.5	0.0797	103	75-125	1.7	80	
Zinc	75.8	0.534	"	25	60	63	75-125	4.8	80	*
Nickel	14.6	0.0633	"	2.5	13.5	44	75-125	7.8	80	*
Lead	15.3	0.031	"	2.5	14.3	40	75-125	5.7	80	*
Copper	15.1	0.0806	"	2.5	14.1	40	75-125	3.8	80	*
Barium	120	0.042	"	5	120	0	75-125	8	80	*
Cadmium	0.665	0.0259	"	0.5	0.257	82	75-125	3.5	80	
MS (L 96445-MS-L594832)			Source: 96445		Prepared: 01/17/2022 Analyzed: 01/19/2022					
Barium	130	0.042	mg/Kg	4.86	120	206	75-125			*
Zinc	79.6	0.534	"	24.3	60	81	75-125			
Silver	0.524	0.0067	"	0.486	0.0797	108	75-125			
Selenium	3.46	0.103	"	4.86	0.332	64	75-125			*
Nickel	15.8	0.0633	"	2.43	13.5	95	75-125			
Lead	16.2	0.031	"	2.43	14.3	78	75-125			
Cadmium	0.689	0.0259	"	0.486	0.257	89	75-125			
Arsenic	3.85	0.0855	"	2.43	2.21	67	75-125			*
Copper	15.7	0.0806	"	2.43	14.1	66	75-125			*
LCS (LCS-L594832)			Prepared: 01/17/2022 Analyzed: 01/19/2022							
Arsenic	2.33	0.0855	mg/Kg	2.5		93	80-120			
Lead	2.32	0.031	"	2.5		93	80-120			
Nickel	2.37	0.0633	"	2.5		95	80-120			
Selenium	4.81	0.103	"	5		96	80-120			
Silver	0.487	0.0067	"	0.5		97	80-120			

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

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L594832 - 3050B

LCS (LCS-L594832)

Prepared: 01/17/2022 Analyzed: 01/19/2022

Zinc	23.7	0.534	mg/Kg	25		95	80-120			
Copper	2.32	0.0806	"	2.5		93	80-120			
Barium	4.82	0.042	"	5		96	80-120			
Cadmium	0.457	0.0259	"	0.5		91	80-120			

LRB (LRB-L594832)

Prepared: 01/17/2022 Analyzed: 01/19/2022

Arsenic	ND	0.25	mg/Kg				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	ND	0.25	"				-			

Batch L596446 - 3050B

MSD (L 99759-MSD-L596446)

Source: 99759

Prepared: 01/26/2022 Analyzed: 01/28/2022

Selenium	3.67	0.103	mg/Kg	4.67	0.266	73	75-125	2.4	80	*
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MS (L 99759-MS-L596446)

Source: 99759

Prepared: 01/26/2022 Analyzed: 01/28/2022

Selenium	3.76	0.103	mg/Kg	4.9	0.266	71	75-125			*
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LCS (LCS-L596446)

Prepared: 01/26/2022 Analyzed: 01/28/2022

Selenium	4.63	0.103	mg/Kg	5		93	80-120			
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Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L596446 - 3050B

LRB (LRB-L596446)

Prepared: 01/26/2022 Analyzed: 01/28/2022

Selenium	ND	0.25	mg/Kg	-
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L595625 -										
DUP (L 96392-DUP)		Source: 96392			Prepared: Analyzed: 01/24/2022					
Chromium, Hexavalent	ND	0.497	mg/Kg		96392	-		0	20	
MS (L 96392-MS)		Source: 96392			Prepared: Analyzed: 01/24/2022					
Chromium, Hexavalent	7.46	0.488	mg/Kg	7.87	96392	95	75-125			
LCS (LCS)					Prepared: Analyzed: 01/24/2022					
Chromium, Hexavalent	7.43	0.244	mg/Kg	8		93	75-125			
LRB (LRB)					Prepared: Analyzed: 01/24/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Notes and Definitions

- U Sample is Non-Detect.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- J-02 Reported value failed to meet established quality control criteria for the precision accuracy.
- J Estimated Value. Analyte below reported quantitation limit.
- * QC Failure
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

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.



February 14, 2022

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - West farms 2-14A

Project Number - 90406875

Attached are your analytical results for KMG - West farms 2-14A received by Origins Laboratory, Inc. February 01, 2022. This project is associated with Origins project number Y202030-01.

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

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pit-B02@5'	Y202030-01	Soil	February 1, 2022 9:30	02/01/2022 16:08
Pit-B03@5'	Y202030-02	Soil	February 1, 2022 9:32	02/01/2022 16:08
Pit-N02@4'	Y202030-03	Soil	February 1, 2022 9:34	02/01/2022 16:08
Pit-N03@4'	Y202030-04	Soil	February 1, 2022 9:36	02/01/2022 16:08

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

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

www.originslaboratory.com

page 1 of 1

ORIGINS
LABORATORY, INC

120030

Client: OK / Tasman
Address: _____
Telephone Number: _____
Email Address: Wjahn@tasman-geo.com
Project Manager: Mike Jahn
Project Name: West farms 2-14A
Project Number: _____
Samples Collected By: BL

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis				Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	6-TE-X-W	DTG-20		THM-5	PH-5
Pit - 804.05'	2-1-22	930	2	X					X			X	X	X	X	1
Pit - 804.05'		932	1									X	X	X	X	2
Pit - 804.05'		934	1									X	X	X	X	3
Pit - 804.05'		936	1									X	X	X	X	4
Pit - 804.05'																5
																6
																7
																8
																9
																10

Handwritten notes: High pH's (rows 3, 4, 5)

Relinquished By: BL Date: 2-1-22 Time: _____
Relinquished By: _____ Date: _____ Time: _____

Received By: [Signature] Date: 2-1-22 Time: 1608
Received By: _____ Date: _____ Time: _____

Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

Date Results Needed

Temp Received: 4.4

Origins Laboratory, Inc.

Jordan A. Merrill

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

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y202030

Client: Tasman

Client Project ID: West Farms 2-14A

Checklist Completed by: SG

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

Date/time completed: 2/1/22

Airbill #: N/A

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

Cooler Number/Temperature: 1, 4.4 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: T003

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

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

Reviewed by (Project Manager)

2/1/22
Date/Time Reviewed

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

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-B02@5'

2/1/2022 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y202030-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2B0121	02/01/2022	02/02/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 85.0 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2B0118	02/01/2022	02/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 252 % 70-130 " " "
Surrogate: Toluene-d8 250 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 244 % 70-130 " " "

PAH by 8270D SIM

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-B02@5'

2/1/2022 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y202030-01 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L598904	02/11/2022	02/11/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	67.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	79 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	63.8 %	29-110	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-B02@5'

2/1/2022 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y202030-01 (Soil)

Total Metals by 6020B

Selenium	0.213	0.103	0.25	mg/Kg	5	L598012	02/07/2022	02/08/2022	J
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Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-B03@5'

2/1/2022 9:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y202030-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2B0121	02/01/2022	02/02/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.9 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2B0118	02/01/2022	02/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	251 %	70-130	"	"	"
Surrogate: Toluene-d8	250 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	246 %	70-130	"	"	"

PAH by 8270D SIM

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-B03@5'

2/1/2022 9:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y202030-02 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L598395	02/09/2022	02/09/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	64 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	68 %	29-110	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-B03@5'

2/1/2022 9:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y202030-02 (Soil)

Total Metals by 6020B

Selenium	0.246	0.103	0.25	mg/Kg	5	L598012	02/07/2022	02/08/2022	J
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-N02@4'

2/1/2022 9:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y202030-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	273		25.0	mg/kg	1	B2B0121	02/01/2022	02/02/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 88.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2B0118	02/01/2022	02/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	0.00744	0.00200	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.00792	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	204	5.00	"	25	"	"	02/02/2022	

Surrogate: 1,2-Dichloroethane-d4 299 % 70-130 " " 02/02/2022
Surrogate: Toluene-d8 282 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 1190 % 70-130 " " " S-04

PAH by 8270D SIM

Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-N02@4'

2/1/2022 9:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y202030-03 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	2.38	0.00364	0.0067	mg/Kg	10	L598395	02/09/2022	02/09/2022
2-Methylnaphthalene	4.4	0.00645	0.0067	"	"	"	"	"
Acenaphthene	0.12	0.00304	0.0067	"	"	"	"	"
Anthracene	ND	0.00334	0.0067	"	"	"	"	"
Benzo(a)anthracene	ND	0.00493	0.0067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00585	0.0067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"
Chrysene	ND	0.00624	0.0067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"
Fluoranthene	ND	0.00394	0.0067	"	"	"	"	"
Fluorene	0.163	0.00286	0.0067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	"	"	"	"	"
Naphthalene	0.055	0.00484	0.0067	"	"	"	"	"
Pyrene	ND	0.00643	0.0067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	79.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	89.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	111 %	29-110	"	"	" *

Origins Laboratory, Inc.

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-N02@4'

2/1/2022 9:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y202030-03 (Soil)

Total Metals by 6020B

Selenium	0.495	0.103	0.25	mg/Kg	5	L598012	02/07/2022	02/08/2022	
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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-N03@4'

2/1/2022 9:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y202030-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	42.1		25.0	mg/kg	1	B2B0121	02/01/2022	02/02/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 86.9 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2B0118	02/01/2022	02/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.00306	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	247	5.00	"	25	"	"	02/03/2022	

Surrogate: 1,2-Dichloroethane-d4 288 % 70-130 " " 02/02/2022
Surrogate: Toluene-d8 261 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 542 % 70-130 " " " S-04

PAH by 8270D SIM

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-N03@4'

2/1/2022 9:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y202030-04 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	0.955	0.00182	0.00335	mg/Kg	5	L598395	02/09/2022	02/09/2022	
2-Methylnaphthalene	1.71	0.00323	0.00335	"	"	"	"	"	
Acenaphthene	0.0599	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	ND	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	0.00227	0.00197	0.00335	"	"	"	"	"	J
Fluorene	0.079	0.00143	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Naphthalene	0.0251	0.00242	0.00335	"	"	"	"	"	
Pyrene	ND	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	78.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	82.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	81.3 %	29-110	"	"	"

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6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-N03@4'

2/1/2022 9:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y202030-04 (Soil)

Total Metals by 6020B

Selenium	0.535	0.103	0.25	mg/Kg	5	L598012	02/07/2022	02/08/2022	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2B0118 - EPA 5030 (soil)										
Blank (B2B0118-BLK1)					Prepared: 02/01/2022 Analyzed: 02/01/2022					
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	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.0500		214	70-130			
Surrogate: Toluene-d8	0.12		"	0.0500		243	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.0500		239	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2B0118 - EPA 5030 (soil)										
Blank (B2B0118-BLK2)					Prepared: 02/01/2022 Analyzed: 02/01/2022					
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	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.0500		224	70-130			
Surrogate: Toluene-d8	0.12		"	0.0500		249	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.0500		238	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2B0118 - EPA 5030 (soil)										
LCS (B2B0118-BS1)					Prepared: 02/01/2022 Analyzed: 02/01/2022					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Naphthalene	0.105	0.0100	"	0.100		105	70-130			
Toluene	0.0965	0.00200	"	0.100		96.5	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.204	0.00400	"	0.200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.0500		210	70-130			
Surrogate: Toluene-d8	0.12		"	0.0500		240	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.0500		247	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2B0118 - EPA 5030 (soil)										
LCS (B2B0118-BS2)					Prepared: 02/01/2022 Analyzed: 02/01/2022					
1,2,4-Trimethylbenzene	0.0879	0.00200	mg/kg	0.100		87.9	70-130			
1,3,5-Trimethylbenzene	0.0861	0.00200	"	0.100		86.1	70-130			
Benzene	0.0965	0.00200	"	0.100		96.5	70-130			
Ethylbenzene	0.0857	0.00200	"	0.100		85.7	70-130			
Naphthalene	0.0991	0.0100	"	0.100		99.1	70-130			
Toluene	0.0850	0.00200	"	0.100		85.0	70-130			
o-Xylene	0.0861	0.00200	"	0.100		86.1	70-130			
m,p-Xylene	0.176	0.00400	"	0.200		87.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.0500		214	70-130			
Surrogate: Toluene-d8	0.12		"	0.0500		231	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.0500		241	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2B0118 - EPA 5030 (soil)										
Matrix Spike (B2B0118-MS1)		Source: Y202017-01			Prepared: 02/01/2022 Analyzed: 02/01/2022					
1,2,4-Trimethylbenzene	0.0874	0.00200	mg/kg	0.100	ND	87.4	70-130			
1,3,5-Trimethylbenzene	0.0865	0.00200	"	0.100	ND	86.5	70-130			
Benzene	0.0997	0.00200	"	0.100	ND	99.7	70-130			
Ethylbenzene	0.0881	0.00200	"	0.100	ND	88.1	70-130			
Naphthalene	0.105	0.0100	"	0.100	ND	105	70-130			
Toluene	0.0877	0.00200	"	0.100	ND	87.7	70-130			
o-Xylene	0.0895	0.00200	"	0.100	ND	89.5	70-130			
m,p-Xylene	0.180	0.00400	"	0.200	ND	90.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.0500		220	70-130			
Surrogate: Toluene-d8	0.12		"	0.0500		232	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.0500		242	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2B0118 - EPA 5030 (soil)										
Matrix Spike (B2B0118-MS2)		Source: Y202017-01			Prepared: 02/01/2022 Analyzed: 02/01/2022					
1,2,4-Trimethylbenzene	0.0844	0.00200	mg/kg	0.100	ND	84.4	70-130			
1,3,5-Trimethylbenzene	0.0834	0.00200	"	0.100	ND	83.4	70-130			
Benzene	0.0978	0.00200	"	0.100	ND	97.8	70-130			
Ethylbenzene	0.0840	0.00200	"	0.100	ND	84.0	70-130			
Naphthalene	0.109	0.0100	"	0.100	ND	109	70-130			
Toluene	0.0889	0.00200	"	0.100	ND	88.9	70-130			
o-Xylene	0.0868	0.00200	"	0.100	ND	86.8	70-130			
m,p-Xylene	0.171	0.00400	"	0.200	ND	85.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.0500		224	70-130			
Surrogate: Toluene-d8	0.12		"	0.0500		240	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.0500		235	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2B0118 - EPA 5030 (soil)										
Matrix Spike Dup (B2B0118-MSD1)		Source: Y202017-01			Prepared: 02/01/2022 Analyzed: 02/01/2022					
1,2,4-Trimethylbenzene	0.0781	0.00200	mg/kg	0.100	ND	78.1	70-130	11.2	20	
1,3,5-Trimethylbenzene	0.0781	0.00200	"	0.100	ND	78.1	70-130	10.2	20	
Benzene	0.0893	0.00200	"	0.100	ND	89.3	70-130	11.0	20	
Ethylbenzene	0.0803	0.00200	"	0.100	ND	80.3	70-130	9.31	20	
Naphthalene	0.0980	0.0100	"	0.100	ND	98.0	70-130	7.18	20	
Toluene	0.0806	0.00200	"	0.100	ND	80.6	70-130	8.39	20	
o-Xylene	0.0823	0.00200	"	0.100	ND	82.3	70-130	8.40	20	
m,p-Xylene	0.164	0.00400	"	0.200	ND	81.8	70-130	9.63	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.0500		219	70-130			
Surrogate: Toluene-d8	0.12		"	0.0500		237	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.0500		247	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2B0118 - EPA 5030 (soil)										
Matrix Spike Dup (B2B0118-MSD2)		Source: Y202017-01			Prepared: 02/01/2022 Analyzed: 02/01/2022					
1,2,4-Trimethylbenzene	0.0771	0.00200	mg/kg	0.100	ND	77.1	70-130	9.06	20	
1,3,5-Trimethylbenzene	0.0769	0.00200	"	0.100	ND	76.9	70-130	8.11	20	
Benzene	0.0925	0.00200	"	0.100	ND	92.5	70-130	5.53	20	
Ethylbenzene	0.0803	0.00200	"	0.100	ND	80.3	70-130	4.46	20	
Naphthalene	0.101	0.0100	"	0.100	ND	101	70-130	7.97	20	
Toluene	0.0845	0.00200	"	0.100	ND	84.5	70-130	4.98	20	
o-Xylene	0.0823	0.00200	"	0.100	ND	82.3	70-130	5.30	20	
m,p-Xylene	0.162	0.00400	"	0.200	ND	81.0	70-130	5.29	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.0500		219	70-130			
Surrogate: Toluene-d8	0.12		"	0.0500		238	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.0500		241	70-130			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2B0121 - EPA 3550B										
Blank (B2B0121-BLK1)					Prepared: 02/01/2022 Analyzed: 02/01/2022					
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			

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Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2B0121 - EPA 3550B										
LCS (B2B0121-BS1)					Prepared: 02/01/2022 Analyzed: 02/01/2022					
Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	70-130			
Surrogate: o-Terphenyl	44		"	49.8		89.4	50-150			

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Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2B0121 - EPA 3550B

Matrix Spike (B2B0121-MS1)		Source: Y202030-01			Prepared: 02/01/2022 Analyzed: 02/01/2022					
Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.4	50-150			

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Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2B0121 - EPA 3550B										
Matrix Spike Dup (B2B0121-MSD1)		Source: Y202030-01			Prepared: 02/01/2022 Analyzed: 02/01/2022					
Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130	0.218	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	1.69	35	
Surrogate: o-Terphenyl	44		"	49.8		89.4	50-150			

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Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L598904 - 3550B

MSD (L 89543-MSD-L598904)		Source: 89543			Prepared: 02/11/2022 Analyzed: 02/11/2022					
Benzo(a)anthracene	0.116	0.000493	mg/Kg	0.165	89543	70.3	30-130	9.8	30	
Indeno(1,2,3-cd)pyrene	0.102	0.000627	"	0.165	89543	61.8	30-130	10.2	30	
Fluoranthene	0.115	0.000394	"	0.165	89543	69.6	30-130	8.3	30	
Dibenz(a,h)anthracene	0.118	0.000614	"	0.165	89543	71.5	30-130	7.3	30	
Chrysene	0.119	0.000624	"	0.165	89543	72.1	30-130	10.3	30	
Benzo(k)fluoranthene	0.119	0.000437	"	0.165	89543	72.1	30-130	8.8	30	
1-Methylnaphthalene	0.0981	0.000364	"	0.165	0.000502	59.4	30-130	8.6	30	
Benzo(a)pyrene	0.127	0.000468	"	0.165	89543	76.9	30-130	8.3	30	
Anthracene	0.103	0.000334	"	0.165	89543	62.4	30-130	6.5	30	
Acenaphthene	0.0911	0.000304	"	0.165	89543	55.2	30-130	8.2	30	
2-Methylnaphthalene	0.0959	0.000645	"	0.165	89543	58.1	30-130	9	30	
Naphthalene	0.1	0.000484	"	0.165	89543	60.6	30-130	8.6	30	
Benzo(b)fluoranthene	0.111	0.000585	"	0.165	89543	67.2	30-130	8.6	30	
Pyrene	0.114	0.000643	"	0.165	89543	69	30-130	7.5	30	
Fluorene	0.101	0.000286	"	0.165	89543	61.2	30-130	8.5	30	
Surrogate: 4-Terphenyl-d14	69.3		"	0.33	237	69.3	33-122			
Surrogate: 2-Fluorobiphenyl	60		"	0.33	208	60	33-115			
Surrogate: Nitrobenzene-d5	59.6		"	0.33	196	59.6	29-110			

MS (L 89543-MS-L598904)		Source: 89543			Prepared: 02/11/2022 Analyzed: 02/11/2022					
Pyrene	0.123	0.000643	mg/Kg	0.164	89543	75	30-130			
Naphthalene	0.109	0.000484	"	0.164	89543	66.4	30-130			

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Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L598904 - 3550B

MS (L 89543-MS-L598904)		Source: 89543			Prepared: 02/11/2022 Analyzed: 02/11/2022					
Indeno(1,2,3-cd)pyrene	0.113	0.000627	mg/Kg	0.164	89543	68.9	30-130			
Fluorene	0.11	0.000286	"	0.164	89543	67	30-130			
Fluoranthene	0.125	0.000394	"	0.164	89543	76.2	30-130			
Dibenz(a,h)anthracene	0.127	0.000614	"	0.164	89543	77.4	30-130			
Chrysene	0.132	0.000624	"	0.164	89543	80.4	30-130			
Benzo(k)fluoranthene	0.13	0.000437	"	0.164	89543	79.2	30-130			
Benzo(a)pyrene	0.138	0.000468	"	0.164	89543	84.1	30-130			
Benzo(a)anthracene	0.128	0.000493	"	0.164	89543	78	30-130			
Anthracene	0.11	0.000334	"	0.164	89543	67	30-130			
Acenaphthene	0.0989	0.000304	"	0.164	89543	60.3	30-130			
2-Methylnaphthalene	0.105	0.000645	"	0.164	89543	64	30-130			
1-Methylnaphthalene	0.107	0.000364	"	0.164	0.000502	65.2	30-130			
Benzo(b)fluoranthene	0.121	0.000585	"	0.164	89543	73.7	30-130			
Surrogate: Nitrobenzene-d5	63.5		"	0.329	196	63.5	29-110			
Surrogate: 2-Fluorobiphenyl	66.5		"	0.329	208	66.5	33-115			
Surrogate: 4-Terphenyl-d14	76.5		"	0.329	237	76.5	33-122			

LRB (LRB-L598904)

Prepared: 02/11/2022 Analyzed: 02/11/2022

Benzo(a)anthracene	ND	0.00067	mg/Kg				-
Benzo(a)pyrene	ND	0.00067	"				-
Benzo(b)fluoranthene	ND	0.00067	"				-
Benzo(k)fluoranthene	ND	0.00067	"				-
Chrysene	ND	0.00067	"				-
Fluoranthene	ND	0.00067	"				-
Fluorene	ND	0.00067	"				-
Dibenz(a,h)anthracene	ND	0.00067	"				-
Anthracene	ND	0.00067	"				-

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L598904 - 3550B										
LRB (LRB-L598904)					Prepared: 02/11/2022 Analyzed: 02/11/2022					
Acenaphthene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	61.5		"	0.333	61.5		33-115			
Surrogate: Nitrobenzene-d5	52.8		"	0.333	52.8		29-110			
Surrogate: 4-Terphenyl-d14	78		"	0.333	78		33-122			

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Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

PAH by 8270D SIM - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L598395 - 3550B

MSD (L 94170-MSD-L598395)		Source: 94170			Prepared: 02/09/2022 Analyzed: 02/09/2022					
Anthracene	0.117	0.000334	mg/Kg	0.165	94170	70.9	30-130	0.8	30	
Benzo(k)fluoranthene	0.111	0.000437	"	0.165	94170	67.2	30-130	0.8	30	
1-Methylnaphthalene	0.11	0.000364	"	0.165	0.000984	66	30-130	3.7	30	
2-Methylnaphthalene	0.109	0.000645	"	0.165	0.0013	65.2	30-130	3.7	30	
Acenaphthene	0.115	0.000304	"	0.165	94170	69.6	30-130	2.6	30	
Benzo(a)pyrene	0.123	0.000468	"	0.165	94170	74.5	30-130	1.6	30	
Benzo(b)fluoranthene	0.111	0.000585	"	0.165	94170	67.2	30-130	0	30	
Pyrene	0.122	0.000643	"	0.165	94170	73.9	30-130	2.4	30	
Chrysene	0.118	0.000624	"	0.165	94170	71.5	30-130	3.4	30	
Dibenz(a,h)anthracene	0.108	0.000614	"	0.165	94170	65.4	30-130	0.9	30	
Fluoranthene	0.125	0.000394	"	0.165	94170	75.7	30-130	3.2	30	
Fluorene	0.117	0.000286	"	0.165	0.000483	70.9	30-130	1.7	30	
Indeno(1,2,3-cd)pyrene	0.116	0.000627	"	0.165	94170	70.3	30-130	1.7	30	
Naphthalene	0.106	0.000484	"	0.165	94170	64.2	30-130	4.8	30	
Benzo(a)anthracene	0.125	0.000493	"	0.165	94170	75.7	30-130	3.2	30	
Surrogate: 2-Fluorobiphenyl	62.7		"	0.33	191	62.7	33-115			
Surrogate: 4-Terphenyl-d14	68.4		"	0.33	217	68.4	33-122			
Surrogate: Nitrobenzene-d5	66.6		"	0.33	210	66.6	29-110			

MS (L 94170-MS-L598395)		Source: 94170			Prepared: 02/09/2022 Analyzed: 02/09/2022					
Naphthalene	0.101	0.000484	mg/Kg	0.165	94170	61.2	30-130			
Pyrene	0.119	0.000643	"	0.165	94170	72.1	30-130			
2-Methylnaphthalene	0.105	0.000645	"	0.165	0.0013	62.8	30-130			
Acenaphthene	0.112	0.000304	"	0.165	94170	67.8	30-130			
Anthracene	0.116	0.000334	"	0.165	94170	70.3	30-130			
Benzo(a)anthracene	0.121	0.000493	"	0.165	94170	73.3	30-130			
Benzo(a)pyrene	0.121	0.000468	"	0.165	94170	73.3	30-130			

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Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L598395 - 3550B

MS (L 94170-MS-L598395)		Source: 94170			Prepared: 02/09/2022 Analyzed: 02/09/2022					
Benzo(b)fluoranthene	0.111	0.000585	mg/Kg	0.165	94170	67.2	30-130			
Benzo(k)fluoranthene	0.112	0.000437	"	0.165	94170	67.8	30-130			
Chrysene	0.114	0.000624	"	0.165	94170	69	30-130			
Dibenz(a,h)anthracene	0.109	0.000614	"	0.165	94170	66	30-130			
Fluoranthene	0.121	0.000394	"	0.165	94170	73.3	30-130			
Fluorene	0.115	0.000286	"	0.165	0.000483	69.6	30-130			
Indeno(1,2,3-cd)pyrene	0.118	0.000627	"	0.165	94170	71.5	30-130			
1-Methylnaphthalene	0.106	0.000364	"	0.165	0.000984	63.6	30-130			
Surrogate: 4-Terphenyl-d14	66.9		"	0.33	217	66.9	33-122			
Surrogate: 2-Fluorobiphenyl	61.5		"	0.33	191	61.5	33-115			
Surrogate: Nitrobenzene-d5	63.9		"	0.33	210	63.9	29-110			

LCS (LCS-L598395)		Prepared: 02/09/2022 Analyzed: 02/09/2022								
Naphthalene	0.11	0.000484	mg/Kg	0.167		65.8	30-130			
Benzo(k)fluoranthene	0.124	0.000437	"	0.167		74.2	30-130			
1-Methylnaphthalene	0.115	0.000364	"	0.167		68.8	30-130			
2-Methylnaphthalene	0.114	0.000645	"	0.167		68.2	30-130			
Acenaphthene	0.121	0.000304	"	0.167		72.4	30-130			
Anthracene	0.125	0.000334	"	0.167		74.8	30-130			
Benzo(a)anthracene	0.132	0.000493	"	0.167		79	30-130			
Pyrene	0.127	0.000643	"	0.167		76	30-130			
Benzo(b)fluoranthene	0.137	0.000585	"	0.167		82	30-130			
Chrysene	0.125	0.000624	"	0.167		74.8	30-130			
Dibenz(a,h)anthracene	0.137	0.000614	"	0.167		82	30-130			
Fluoranthene	0.13	0.000394	"	0.167		77.8	30-130			
Fluorene	0.125	0.000286	"	0.167		74.8	30-130			
Indeno(1,2,3-cd)pyrene	0.144	0.000627	"	0.167		86.2	30-130			

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Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L598395 - 3550B

LCS (LCS-L598395)

Prepared: 02/09/2022 Analyzed: 02/09/2022

Benzo(a)pyrene	0.134	0.000468	mg/Kg	0.167		80.2	30-130			
Surrogate: 2-Fluorobiphenyl	64.8		"	0.333	64.8		33-115			
Surrogate: 4-Terphenyl-d14	72		"	0.333	72		33-122			
Surrogate: Nitrobenzene-d5	70.5		"	0.333	70.5		29-110			

LRB (LRB-L598395)

Prepared: 02/09/2022 Analyzed: 02/09/2022

Benzo(a)anthracene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(a)pyrene	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	0.00125	0.00067	"				-			*
Surrogate: 2-Fluorobiphenyl	62.1		"	0.333	62.1		33-115			
Surrogate: Nitrobenzene-d5	66.6		"	0.333	66.6		29-110			
Surrogate: 4-Terphenyl-d14	66		"	0.333	66		33-122			

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Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L598012 - 3050B										
MSD (L 93781-MSD-L598012)		Source: 93781								
					Prepared: 02/07/2022	Analyzed: 02/11/2022				
Selenium	3.62	0.103	mg/Kg	4.63	0.387	70	75-125	9.5	80	*
MS (L 93781-MS-L598012)		Source: 93781								
					Prepared: 02/07/2022	Analyzed: 02/11/2022				
Selenium	3.29	0.103	mg/Kg	4.63	0.387	63	75-125			*
LCS (LCS-L598012)										
					Prepared: 02/07/2022	Analyzed: 02/11/2022				
Selenium	5.32	0.103	mg/Kg	5		106	80-120			
LRB (LRB-L598012)										
					Prepared: 02/07/2022	Analyzed: 02/08/2022				
Selenium	ND	0.25	mg/Kg				-			

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6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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.



February 10, 2022

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - West farms 2-14A

Project Number - 90406875

Attached are your analytical results for KMG - West farms 2-14A received by Origins Laboratory, Inc. February 09, 2022. This project is associated with Origins project number Y202193-01.

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

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pit-B04@5'	Y202193-01	Soil	February 9, 2022 9:00	02/09/2022 16:52
Pit-S02@4'	Y202193-02	Soil	February 9, 2022 9:02	02/09/2022 16:52
Pit-S03@4'	Y202193-03	Soil	February 9, 2022 9:04	02/09/2022 16:52
Pit-W02@4'	Y202193-04	Soil	February 9, 2022 9:06	02/09/2022 16:52
Pit-W03@4'	Y202193-05	Soil	February 9, 2022 9:08	02/09/2022 16:52
Pit-W04@4'	Y202193-06	Soil	February 9, 2022 9:10	02/09/2022 16:52

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

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

www.originslaboratory.com

page of

ORIGINS
LABORATORY, INC

420243

Client: OXY / Tasman
Project Manager: Andy Sagwa
Address: _____
Project Name: West Farms 2-14A
Project Number: _____
Samples Collected By: DL

Telephone Number: _____
Email Address: andy.sagwa@tasmangeo.com

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

Sample ID Description	Date Sampled	Time Sampled	Preservative			Matrix			Analysis			Sample Instructions
			Unpreserved	HCl	HNO ₃	Groundwater	Soil	Air Summa	Other	GT-EX-N	DR-1000	
Pit- 80146	2-9-02	905	X				X		X	X	X	High P.d
Pit- 80204		902										
Pit- 80304		904										
Pit- 80304		906										
Pit- 80304		908										
Pit- 80404		910										

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>hsh</u>	2-9-02	1652	<u>DL</u>	2-9-02	1652	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"/>

Date Results Needed

Temp Received: 41.2

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

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y202193

Client: Tasman

Client Project ID: West Farms

Checklist Completed by: SG

Shipped Via: HD

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

Date/time completed: 2/9/22

Airbill #: N/A

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

Cooler Number/Temperature: 1,4,2 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: T003

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 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)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

2/9/22
Date/Time Reviewed

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

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-B04@5'

2/9/2022 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y202193-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2B0928	EPC	02/09/2022	02/10/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: o-Terphenyl 86.1 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2B0929	ZZZ	02/09/2022	02/10/2022	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 97.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-S02@4'

2/9/2022 9:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y202193-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	392	25.0	mg/kg	1	B2B0928	EPC	02/09/2022	02/10/2022	
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: o-Terphenyl 88.4 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.965	0.500	mg/kg	250	B2B0929	ZZZ	02/09/2022	02/10/2022	
1,3,5-Trimethylbenzene	ND	0.00200	"	1	"	ZZZ	"	02/10/2022	U
Benzene	0.00306	0.00200	"	"	"	ZZZ	"	"	
Ethylbenzene	0.00544	0.00200	"	"	"	ZZZ	"	"	
Toluene	0.00904	0.00200	"	"	"	ZZZ	"	"	
Xylenes, total	0.0140	0.00200	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	301	50.0	"	250	"	ZZZ	"	02/10/2022	

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

Surrogate: Toluene-d8 96.8 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-S03@4'

2/9/2022 9:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y202193-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	611	25.0	mg/kg	1	B2B0928	EPC	02/09/2022	02/10/2022	
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: o-Terphenyl 87.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.990	0.500	mg/kg	250	B2B0929	ZZZ	02/09/2022	02/10/2022	
1,3,5-Trimethylbenzene	ND	0.00200	"	1	"	ZZZ	"	02/10/2022	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	0.00644	0.00200	"	"	"	ZZZ	"	"	
Toluene	0.00408	0.00200	"	"	"	ZZZ	"	"	
Xylenes, total	0.0250	0.00200	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	313	50.0	"	250	"	ZZZ	"	02/10/2022	

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
Surrogate: Toluene-d8 96.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 106 % 70-130 " " "

Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-W02@4'

2/9/2022 9:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y202193-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2B0928	EPC	02/09/2022	02/10/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: o-Terphenyl 103 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2B0929	ZZZ	02/09/2022	02/10/2022	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 104 % 70-130 " " "
Surrogate: Toluene-d8 96.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 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

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-W03@4'

2/9/2022 9:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y202193-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2B0928	EPC	02/09/2022	02/10/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: o-Terphenyl 108 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00512	0.00200	mg/kg	1	B2B0929	ZZZ	02/09/2022	02/10/2022	
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	1.04	0.200	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
Surrogate: Toluene-d8 95.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 113 % 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

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

Pit-W04@4'

2/9/2022 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y202193-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	119	25.0	mg/kg	1	B2B0928	EPC	02/09/2022	02/10/2022	
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: o-Terphenyl 86.6 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.173	0.00200	mg/kg	1	B2B0929	ZZZ	02/09/2022	02/10/2022	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	0.00280	0.00200	"	"	"	ZZZ	"	"	
Toluene	0.00246	0.00200	"	"	"	ZZZ	"	"	
Xylenes, total	0.00826	0.00200	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	99.7	50.0	"	250	"	ZZZ	"	02/10/2022	

Surrogate: 1,2-Dichloroethane-d4 98.0 % 70-130 " " "
Surrogate: Toluene-d8 97.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2B0928 - EPA 3550B										
Blank (B2B0928-BLK1)					Prepared: 02/09/2022 Analyzed: 02/09/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		96.5	50-150			

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2B0928 - EPA 3550B

LCS (B2B0928-BS1)

Prepared: 02/09/2022 Analyzed: 02/09/2022

Diesel (C10-C28)	1100	50.0	mg/kg	1000		110	70-130			
Residual Range Organics (C28-C40)	925	200	"	1000		92.5	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.6	50-150			

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2B0928 - EPA 3550B

Matrix Spike (B2B0928-MS1)		Source: Y202191-01			Prepared: 02/09/2022 Analyzed: 02/10/2022					
Diesel (C10-C28)	1120	50.0	mg/kg	1000	ND	112	70-130			
Residual Range Organics (C28-C40)	940	200	"	1000	ND	94.0	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.2	50-150			

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2B0928 - EPA 3550B

Matrix Spike Dup (B2B0928-MSD1)		Source: Y202191-01			Prepared: 02/09/2022 Analyzed: 02/10/2022					
Diesel (C10-C28)	1060	50.0	mg/kg	1000	ND	106	70-130	5.66	35	
Residual Range Organics (C28-C40)	885	200	"	1000	ND	88.5	70-130	6.08	35	
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2B0929 - EPA 5030 (soil)										
Blank (B2B0929-BLK1)					Prepared: 02/09/2022 Analyzed: 02/09/2022					
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	0.0100	"							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		95.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2B0929 - EPA 5030 (soil)										
LCS (B2B0929-BS1)					Prepared: 02/09/2022 Analyzed: 02/09/2022					
1,2,4-Trimethylbenzene	0.117	0.00200	mg/kg	0.100		117	70-130			
1,3,5-Trimethylbenzene	0.120	0.00200	"	0.100		120	70-130			
Benzene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.116	0.00200	"	0.100		116	70-130			
Naphthalene	0.105	0.0100	"	0.100		105	70-130			
Toluene	0.110	0.00200	"	0.100		110	70-130			
o-Xylene	0.116	0.00200	"	0.100		116	70-130			
m,p-Xylene	0.234	0.00400	"	0.200		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90406875
Project: KMG - West farms 2-14A

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 B2B0929 - EPA 5030 (soil)										
Matrix Spike (B2B0929-MS1)		Source: Y202193-01			Prepared: 02/09/2022 Analyzed: 02/09/2022					
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100	0.000560	109	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130			
Benzene	0.103	0.00200	"	0.100	ND	103	70-130			
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
Naphthalene	0.113	0.0100	"	0.100	ND	113	70-130			
Toluene	0.103	0.00200	"	0.100	ND	103	70-130			
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130			
m,p-Xylene	0.215	0.00400	"	0.200	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2B0929 - EPA 5030 (soil)										
Matrix Spike Dup (B2B0929-MSD1)		Source: Y202193-01			Prepared: 02/09/2022 Analyzed: 02/09/2022					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	0.000560	106	70-130	3.22	20	
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130	0.961	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	2.01	20	
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	2.00	20	
Naphthalene	0.111	0.0100	"	0.100	ND	111	70-130	2.39	20	
Toluene	0.100	0.00200	"	0.100	ND	100	70-130	2.60	20	
o-Xylene	0.106	0.00200	"	0.100	ND	106	70-130	1.72	20	
m,p-Xylene	0.210	0.00400	"	0.200	ND	105	70-130	2.19	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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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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