

October 05, 2023

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

**Project Name - KMG - Greenleaf 16N-15HZ
Release**

Project Number - [none]

Attached are your analytical results for KMG - Greenleaf 16N-15HZ Release received by Origins Laboratory, Inc. September 25, 2023. This project is associated with Origins project number Y309577-01.

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

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

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

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

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

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



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Greenleaf 16N-15HZ Release

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@3"	Y309577-01	Soil	September 25, 2023 11:33	09/25/2023 17:50
BG01@3"	Y309577-02	Soil	September 25, 2023 11:35	09/25/2023 17:50
BG02@3"	Y309577-03	Soil	September 25, 2023 11:37	09/25/2023 17:50
BG03@3"	Y309577-04	Soil	September 25, 2023 11:39	09/25/2023 17:50
BG04@3"	Y309577-05	Soil	September 25, 2023 11:41	09/25/2023 17:50

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

Origins Laboratory

Origins Work Order: 4309877

Checklist Completed by: JAS
 Date/time completed: 9/25/23

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 7 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: T603


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

Client: Tasman
 Client Project ID: Greenleaf
 Shipped Via: HD
 Airbill #: 1124 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 8°C ⁽¹⁾ ?				
Is there ice present (document if blue ice is used)		<input checked="" type="checkbox"/>		<u>SD</u>
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⁾ ?				
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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager): JAS Date/Time Reviewed: 9/25/23

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

B01@3"
9/25/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309577-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.65		0.101	mg/L	1	B312611	09/26/2023	09/27/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	321		25.0	mg/kg	1	B312530	09/25/2023	09/26/2023	
Residual Range Organics (C28-C40)	203		100	"	"	"	"	"	

Surrogate: <i>o</i> -Terphenyl	57.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B312531	09/25/2023	09/26/2023	U
1,3,5-Trimethylbenzene	0.154		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.110		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	10.9		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
Surrogate: Toluene-d8	104 %		70-130			"	"	"	

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

B01@3"

9/25/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309577-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	96.3 %		70-130			B31253 1	09/25/2023	09/26/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	6.26	0.499	meq/L	10	[CALC]		09/26/2023	09/27/2023	
Magnesium	2.27	0.823	"	"	"	"	"	"	
Sodium	39.5	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

R-01

1-Methylnaphthalene	0.455	0.002	mg/kg	1	B312527	09/25/2023	09/30/2023	
2-Methylnaphthalene	0.842	0.002	"	"	"	"	"	
Acenaphthene	0.101	0.020	"	"	"	"	"	
Anthracene	0.020	0.020	"	"	"	"	"	
Benzo (a) anthracene	ND	0.010	"	2	"	"	10/02/2023	R-01, U
Benzo (a) pyrene	ND	0.040	"	"	"	"	"	R-01, U
Benzo (b) fluoranthene	ND	0.040	"	"	"	"	"	R-01, U
Benzo (k) fluoranthene	ND	0.040	"	"	"	"	"	R-01, U
Chrysene	ND	0.040	"	"	"	"	"	R-01, U
Dibenz (a,h) anthracene	ND	0.040	"	"	"	"	"	R-01, U
Fluoranthene	ND	0.020	"	1	"	"	09/30/2023	U

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B01@3"

9/25/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309577-01 (Soil)

PAH by EPA 8270E

R-01

Fluorene	0.130		0.020	mg/kg	1	B312527	09/25/2023	09/30/2023	
Indeno (1,2,3-cd) pyrene	ND		0.040	"	2	"	"	10/02/2023	R-01, U
Naphthalene	0.104		0.002	"	1	"	"	09/30/2023	
Pyrene	ND		0.040	"	2	"	"	10/02/2023	U

Surrogate: Fluorene-d10	97.1 %		60-130			"	"	09/30/2023	
Surrogate: Anthracene-d10	103 %		60-130			"	"	"	
Surrogate: Pyrene-d10	86.8 %		60-130			"	"	10/02/2023	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.19			pH Units	1	B312628	09/26/2023	09/27/2023	
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SAR by 20B Saturated Paste

SAR	19.1		0.0100	SAR	1	B312617	09/26/2023	09/27/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.81		0.00500	mmhos/cm	1	B312628	09/26/2023	09/27/2023	
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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

B01@3"

9/25/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309577-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.56		0.0959	mg/kg	10	B312623	09/26/2023	09/28/2023	
Barium	54.7		9.59	"	"	"	"	"	
Cadmium	ND		0.0959	"	"	"	"	"	
Copper	ND		9.59	"	"	"	"	"	
Lead	ND		9.59	"	"	"	"	"	
Nickel	ND		9.59	"	"	"	"	"	
Selenium	ND		0.0959	"	"	"	"	"	
Silver	ND		0.0959	"	"	"	"	"	
Zinc	ND		95.9	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L707962	09/25/2023	10/03/2023	
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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

BG01@3"
9/25/2023 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309577-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.447		0.0994	mg/L	1	B312611	09/26/2023	09/27/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	2.31		0.499	meq/L	10	[CALC]	09/26/2023	09/27/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.18			pH Units	1	B312628	09/26/2023	09/27/2023	
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SAR by 20B Saturated Paste

SAR	0.220		0.0100	SAR	1	B312617	09/26/2023	09/27/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.338		0.00500	mmhos/cm	1	B312628	09/26/2023	09/27/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.51		0.0983	mg/kg	10	B312623	09/26/2023	09/28/2023	
Barium	117		9.83	"	"	"	"	"	
Cadmium	0.117		0.0983	"	"	"	"	"	
Copper	ND		9.83	"	"	"	"	"	

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 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

BG01@3"

9/25/2023 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309577-02 (Soil)

Table 915 metals by EPA 6020B

Lead	ND		9.83	mg/kg	10	B312623	09/26/2023	09/28/2023	
Nickel	ND		9.83	"	"	"	"	"	
Selenium	ND		0.0983	"	"	"	"	"	
Silver	ND		0.0983	"	"	"	"	"	
Zinc	ND		98.3	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.251	0.515	mg/Kg	1	L707962	09/25/2023	10/03/2023	
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Andy Sagen
 Project Number: [none]
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BG02@3"

9/25/2023 11:37:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y309577-03 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.473		0.0998	mg/L	1	B312611	09/26/2023	09/27/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	9.35		0.499	meq/L	10	[CALC]	09/26/2023	09/27/2023	
Magnesium	5.04		0.823	"	"	"	"	"	
Sodium	7.58		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.13			pH Units	1	B312628	09/26/2023	09/27/2023	
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SAR by 20B Saturated Paste

SAR	2.83		0.0100	SAR	1	B312617	09/26/2023	09/27/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.32		0.00500	mmhos/cm	1	B312628	09/26/2023	09/27/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.88		0.0836	mg/kg	10	B312623	09/26/2023	09/28/2023	
Barium	260		8.36	"	"	"	"	"	
Cadmium	0.164		0.0836	"	"	"	"	"	
Copper	ND		8.36	"	"	"	"	"	

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

BG02@3"

9/25/2023 11:37:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309577-03 (Soil)

Table 915 metals by EPA 6020B

Lead	ND		8.36	mg/kg	10	B312623	09/26/2023	09/28/2023	
Nickel	ND		8.36	"	"	"	"	"	
Selenium	0.267		0.0836	"	"	"	"	"	
Silver	ND		0.0836	"	"	"	"	"	
Zinc	ND		83.6	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.502	mg/Kg	1	L707962	09/25/2023	10/03/2023	
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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

BG03@3"

9/25/2023 11:39:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309577-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.532		0.0989	mg/L	1	B312611	09/26/2023	09/27/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	7.31		0.499	meq/L	10	[CALC]	09/26/2023	09/27/2023	
Magnesium	2.91		0.823	"	"	"	"	"	
Sodium	3.33		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.10			pH Units	1	B312628	09/26/2023	09/27/2023	
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SAR by 20B Saturated Paste

SAR	1.48		0.0100	SAR	1	B312617	09/26/2023	09/27/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.37		0.00500	mmhos/cm	1	B312628	09/26/2023	09/27/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.43		0.0855	mg/kg	10	B312623	09/26/2023	09/28/2023	
Barium	510		8.55	"	"	"	"	"	
Cadmium	0.186		0.0855	"	"	"	"	"	
Copper	10.8		8.55	"	"	"	"	"	

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

BG03@3"

9/25/2023 11:39:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309577-04 (Soil)

Table 915 metals by EPA 6020B

Lead	12.7		8.55	mg/kg	10	B312623	09/26/2023	09/28/2023	
Nickel	ND		8.55	"	"	"	"	"	
Selenium	0.169		0.0855	"	"	"	"	"	
Silver	ND		0.0855	"	"	"	"	"	
Zinc	ND		85.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L707962	09/25/2023	10/03/2023	
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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

BG04@3"

9/25/2023 11:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309577-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.304		0.0993	mg/L	1	B312611	09/26/2023	09/27/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	1.18		0.499	meq/L	10	[CALC]	09/26/2023	09/27/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.755		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.19			pH Units	1	B312628	09/26/2023	09/27/2023	
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SAR by 20B Saturated Paste

SAR	0.883		0.0100	SAR	1	B312617	09/26/2023	09/27/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.259		0.00500	mmhos/cm	1	B312628	09/26/2023	09/27/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.13		0.0890	mg/kg	10	B312623	09/26/2023	09/28/2023	
Barium	66.2		8.90	"	"	"	"	"	
Cadmium	0.104		0.0890	"	"	"	"	"	
Copper	ND		8.90	"	"	"	"	"	

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

BG04@3"

9/25/2023 11:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309577-05 (Soil)

Table 915 metals by EPA 6020B

Lead	ND		8.90	mg/kg	10	B312623	09/26/2023	09/28/2023	
Nickel	ND		8.90	"	"	"	"	"	
Selenium	0.141		0.0890	"	"	"	"	"	
Silver	ND		0.0890	"	"	"	"	"	
Zinc	ND		89.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.512	mg/Kg	1	L707962	09/25/2023	10/03/2023	
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

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 B312530 - EPA 3550B										
Blank (B312530-BLK1)										
					Prepared: 09/25/2023 Analyzed: 09/25/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		95.8	50-150			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

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 B312530 - EPA 3550B

LCS (B312530-BS1)

Prepared: 09/25/2023 Analyzed: 09/25/2023

Diesel (C10-C28)	930	50.0	mg/kg	1000		93.0	70-130			
Residual Range Organics (C28-C40)	918	200	"	1000		91.8	70-130			
Surrogate: o-Terphenyl	49		"	49.8		97.7	50-150			

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Tasman Geosciences
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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

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 B3I2530 - EPA 3550B

Matrix Spike (B3I2530-MS1)	Source: Y309574-01			Prepared: 09/25/2023 Analyzed: 09/25/2023						
Diesel (C10-C28)	917	50.0	mg/kg	1000	ND	91.7	70-130			
Residual Range Organics (C28-C40)	889	200	"	1000	ND	88.9	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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Tasman Geosciences
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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

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 B312530 - EPA 3550B

Matrix Spike Dup (B312530-MSD1)	Source: Y309574-01			Prepared: 09/25/2023 Analyzed: 09/25/2023						
Diesel (C10-C28)	893	50.0	mg/kg	1000	ND	89.3	70-130	2.63	35	
Residual Range Organics (C28-C40)	875	200	"	1000	ND	87.5	70-130	1.62	35	
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

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 B312531 - EPA 5030 (soil)

Blank (B312531-BLK1)

Prepared: 09/25/2023 Analyzed: 09/25/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.4	70-130			

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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

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 B312531 - EPA 5030 (soil)

LCS (B312531-BS1)

Prepared: 09/25/2023 Analyzed: 09/25/2023

1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.0906	0.00380	"	0.100		90.6	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
o-Xylene	0.100	0.00200	"	0.100		100	70-130			
m,p-Xylene	0.204	0.00400	"	0.200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.7	70-130			

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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

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 B312531 - EPA 5030 (soil)

Matrix Spike (B312531-MS1)	Source: Y309574-01			Prepared: 09/25/2023 Analyzed: 09/25/2023						
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Benzene	0.0932	0.00200	"	0.100	ND	93.2	70-130			
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Naphthalene	0.0924	0.00380	"	0.100	ND	92.4	70-130			
Toluene	0.0964	0.00200	"	0.100	ND	96.4	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.203	0.00400	"	0.200	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.2	70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

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 B3I2531 - EPA 5030 (soil)

Matrix Spike Dup (B3I2531-MSD1)	Source: Y309574-01			Prepared: 09/25/2023 Analyzed: 09/25/2023						
1,2,4-Trimethylbenzene	0.0994	0.00200	mg/kg	0.100	ND	99.4	70-130	3.83	20	
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	3.14	20	
Benzene	0.0953	0.00200	"	0.100	ND	95.3	70-130	2.23	20	
Ethylbenzene	0.0997	0.00200	"	0.100	ND	99.7	70-130	2.32	20	
Naphthalene	0.0895	0.00380	"	0.100	ND	89.5	70-130	3.12	20	
Toluene	0.0976	0.00200	"	0.100	ND	97.6	70-130	1.26	20	
o-Xylene	0.0983	0.00200	"	0.100	ND	98.3	70-130	2.23	20	
m,p-Xylene	0.199	0.00400	"	0.200	ND	99.4	70-130	1.96	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.4	70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I2623 - EPA 3050B

Blank (B3I2623-BLK1)

Prepared: 09/26/2023 Analyzed: 09/28/2023

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

LCS (B3I2623-BS1)

Prepared: 09/26/2023 Analyzed: 09/28/2023

Arsenic	0.0492	0.000100	mg/kg	0.0500		98.5	80-120			
Barium	4.95	0.0100	"	5.00		99.1	80-120			
Cadmium	0.0502	0.000100	"	0.0500		100	80-120			
Copper	0.526	0.0100	"	0.500		105	80-120			
Lead	0.0493	0.0100	"	0.0500		98.5	80-120			
Nickel	0.0514	0.0100	"	0.0500		103	80-120			
Selenium	0.0470	0.000100	"	0.0500		94.0	80-120			
Silver	0.0535	0.000100	"	0.0500		107	80-120			
Zinc	0.494	0.100	"	0.500		98.7	80-120			

Matrix Spike (B3I2623-MS1)

Source: Y309575-04

Prepared: 09/26/2023 Analyzed: 09/28/2023

Origins Laboratory, Inc.



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Tasman Geosciences
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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I2623 - EPA 3050B

Matrix Spike (B3I2623-MS1)		Source: Y309575-04			Prepared: 09/26/2023 Analyzed: 09/28/2023					
Arsenic	7.29	0.0863	mg/kg	4.31	1.97	123	75-125			
Barium	488	8.63	"	431	40.0	104	75-125			
Cadmium	4.76	0.0863	"	4.31	0.112	108	75-125			
Copper	55.7	8.63	"	43.1	7.19	113	75-125			
Lead	13.9	8.63	"	4.31	6.32	175	75-125			QM-07
Nickel	16.1	8.63	"	4.31	8.07	185	75-125			QM-07
Selenium	4.36	0.0863	"	4.31	0.121	98.3	75-125			
Silver	4.92	0.0863	"	4.31	0.0109	114	75-125			
Zinc	85.5	86.3	"	43.1	29.6	130	75-125			QM-07

Matrix Spike Dup (B3I2623-MSD1)		Source: Y309575-04			Prepared: 09/26/2023 Analyzed: 09/28/2023					
Arsenic	7.90	0.0974	mg/kg	4.87	1.97	122	75-125	7.99	20	
Barium	547	9.74	"	487	40.0	104	75-125	11.3	20	
Cadmium	5.20	0.0974	"	4.87	0.112	105	75-125	8.88	20	
Copper	61.9	9.74	"	48.7	7.19	112	75-125	10.4	20	
Lead	14.6	9.74	"	4.87	6.32	171	75-125	5.23	20	QM-07
Nickel	17.1	9.74	"	4.87	8.07	185	75-125	6.13	20	QM-07
Selenium	4.71	0.0974	"	4.87	0.121	94.2	75-125	7.64	20	
Silver	5.31	0.0974	"	4.87	0.0109	109	75-125	7.76	20	
Zinc	94.8	97.4	"	48.7	29.6	134	75-125	10.3	20	QM-07

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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B312527 - EPA 3580

Blank (B312527-BLK1)

Prepared: 09/25/2023 Analyzed: 09/29/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		97.9	60-130			
Surrogate: Anthracene-d10	220		"	200		108	60-130			
Surrogate: Pyrene-d10	200		"	200		98.0	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.5	60-130			

LCS (B312527-BS1)

Prepared: 09/25/2023 Analyzed: 09/29/2023

1-Methylnaphthalene	0.204	0.002	mg/kg	0.200		102	70-130			
2-Methylnaphthalene	0.202	0.002	"	0.200		101	70-130			
Acenaphthene	0.200	0.020	"	0.200		100	70-130			
Anthracene	0.198	0.020	"	0.200		98.9	70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I2527 - EPA 3580

LCS (B3I2527-BS1)

Prepared: 09/25/2023 Analyzed: 09/29/2023

Benzo (a) anthracene	0.185	0.005	mg/kg	0.200		92.4	70-130			
Benzo (a) pyrene	0.191	0.020	"	0.200		95.6	70-130			
Benzo (b) fluoranthene	0.193	0.020	"	0.200		96.5	70-130			
Benzo (g,h,i) perylene	0.199	0.020	"	0.200		99.3	70-130			
Benzo (k) fluoranthene	0.201	0.020	"	0.200		100	70-130			
Chrysene	0.226	0.020	"	0.200		113	70-130			
Dibenz (a,h) anthracene	0.183	0.020	"	0.200		91.3	70-130			
Fluoranthene	0.215	0.020	"	0.200		108	70-130			
Fluorene	0.200	0.020	"	0.200		99.9	70-130			
Indeno (1,2,3-cd) pyrene	0.174	0.020	"	0.200		87.0	70-130			
Naphthalene	0.202	0.002	"	0.200		101	70-130			
Phenanthrene	0.193	0.020	"	0.200		96.4	70-130			
Pyrene	0.190	0.020	"	0.200		95.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.1	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	180		"	200		91.2	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.9	60-130			

Matrix Spike (B3I2527-MS1)

Source: Y309568-01

Prepared: 09/25/2023 Analyzed: 09/29/2023

1-Methylnaphthalene	0.209	0.002	mg/kg	0.200	ND	104	70-130			
2-Methylnaphthalene	0.202	0.002	"	0.200	ND	101	70-130			
Acenaphthene	0.205	0.020	"	0.200	ND	103	70-130			
Anthracene	0.187	0.020	"	0.200	0.0005	93.3	70-130			
Benzo (a) anthracene	0.204	0.005	"	0.200	0.0004	102	70-130			
Benzo (a) pyrene	0.207	0.020	"	0.200	ND	104	70-130			
Benzo (b) fluoranthene	0.202	0.020	"	0.200	0.0004	101	70-130			
Benzo (g,h,i) perylene	0.200	0.020	"	0.200	ND	99.8	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I2527 - EPA 3580

Matrix Spike (B3I2527-MS1)		Source: Y309568-01			Prepared: 09/25/2023 Analyzed: 09/29/2023					
Benzo (k) fluoranthene	0.211	0.020	mg/kg	0.200	0.0005	105	70-130			
Chrysene	0.206	0.020	"	0.200	0.0005	103	70-130			
Dibenz (a,h) anthracene	0.201	0.020	"	0.200	ND	101	70-130			
Fluoranthene	0.221	0.020	"	0.200	ND	110	70-130			
Fluorene	0.199	0.020	"	0.200	ND	99.3	70-130			
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200	ND	103	70-130			
Naphthalene	0.206	0.002	"	0.200	ND	103	70-130			
Phenanthrene	0.198	0.020	"	0.200	ND	98.9	70-130			
Pyrene	0.196	0.020	"	0.200	ND	98.0	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.0	60-130			
Surrogate: Anthracene-d10	190		"	200		97.4	60-130			
Surrogate: Pyrene-d10	180		"	200		91.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.0	60-130			

Matrix Spike Dup (B3I2527-MSD1)		Source: Y309568-01			Prepared: 09/25/2023 Analyzed: 09/29/2023					
1-Methylnaphthalene	0.211	0.002	mg/kg	0.200	ND	105	70-130	1.11	20	
2-Methylnaphthalene	0.203	0.002	"	0.200	ND	102	70-130	0.878	20	
Acenaphthene	0.205	0.020	"	0.200	ND	102	70-130	0.216	20	
Anthracene	0.192	0.020	"	0.200	0.0005	95.6	70-130	2.47	20	
Benzo (a) anthracene	0.189	0.005	"	0.200	0.0004	94.5	70-130	7.42	20	
Benzo (a) pyrene	0.208	0.020	"	0.200	ND	104	70-130	0.592	20	
Benzo (b) fluoranthene	0.207	0.020	"	0.200	0.0004	103	70-130	2.48	20	
Benzo (g,h,i) perylene	0.203	0.020	"	0.200	ND	101	70-130	1.50	20	
Benzo (k) fluoranthene	0.210	0.020	"	0.200	0.0005	105	70-130	0.710	20	
Chrysene	0.216	0.020	"	0.200	0.0005	108	70-130	4.72	20	
Dibenz (a,h) anthracene	0.189	0.020	"	0.200	ND	94.3	70-130	6.48	20	
Fluoranthene	0.222	0.020	"	0.200	ND	111	70-130	0.661	20	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B312527 - EPA 3580

Matrix Spike Dup (B312527-MSD1)	Source: Y309568-01			Prepared: 09/25/2023 Analyzed: 09/29/2023						
Fluorene	0.205	0.020	mg/kg	0.200	ND	103	70-130	3.40	20	
Indeno (1,2,3-cd) pyrene	0.180	0.020	"	0.200	ND	90.1	70-130	13.5	20	
Naphthalene	0.211	0.002	"	0.200	ND	106	70-130	2.68	20	
Phenanthrene	0.209	0.020	"	0.200	ND	104	70-130	5.49	20	
Pyrene	0.195	0.020	"	0.200	ND	97.4	70-130	0.613	20	
<i>Surrogate: Fluorene-d10</i>	200		<i>ug/kg</i>	200		98.8	60-130			
<i>Surrogate: Anthracene-d10</i>	210		"	200		106	60-130			
<i>Surrogate: Pyrene-d10</i>	180		"	200		91.4	60-130			
<i>Surrogate: Benzo (a) pyrene-d12</i>	200		"	200		100	60-130			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

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 B3I2611 - DTPA Sorbitol Preparation

Blank (B3I2611-BLK1)

Prepared: 09/26/2023 Analyzed: 09/27/2023

Boron ND 0.100 mg/L

Duplicate (B3I2611-DUP1)

Source: Y309575-03

Prepared: 09/26/2023 Analyzed: 09/27/2023

Boron 0.363 0.0986 mg/L 0.319 12.8 50

Batch B3I2617 - Saturated Paste Metals

Blank (B3I2617-BLK1)

Prepared: 09/26/2023 Analyzed: 09/27/2023

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3I2617-DUP1)

Source: Y309575-05

Prepared: 09/26/2023 Analyzed: 09/27/2023

SAR ND 0.0100 SAR 6.63 200

Calcium PPM 289 10.0 mg/L 338 15.7 50

Magnesium PPM 146 10.0 " 164 11.9 50

Sodium PPM 560 10.0 " 594 5.93 50

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B312628 - Saturated Paste pH/EC										
Blank (B312628-BLK1)					Prepared: 09/26/2023 Analyzed: 09/27/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B312628-DUP1)					Source: Y309575-05 Prepared: 09/26/2023 Analyzed: 09/27/2023					
pH	8.01		pH Units		8.00			0.125	25	
Specific Conductance (EC)	4.11	0.00500	mmhos/cm		4.38			6.24	25	

Origins Laboratory, Inc.



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 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ Release

**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 L707962 -										
DUP (L 87510-DUP)		Source: 87510			Prepared: Analyzed: 10/03/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 87510-MS)		Source: 87510			Prepared: Analyzed: 10/03/2023					
Chromium, Hexavalent	33.8	2.5	mg/Kg	39.6	<1.22	85	75-125			
LCS (LCS)		Prepared: Analyzed: 10/03/2023								
Chromium, Hexavalent	7.13	0.5	mg/Kg	8		89	75-125			
LRB (LRB)		Prepared: Analyzed: 10/03/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Greenleaf 16N-15HZ Release

Notes and Definitions

U Sample is Non-Detect.

R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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.



January 08, 2024

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Greenleaf 16N-15HZ

Project Number - [none]

Attached are your analytical results for KMG - Greenleaf 16N-15HZ received by Origins Laboratory, Inc. December 28, 2023. This project is associated with Origins project number Y312746-01.

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

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

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

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

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

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



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B02@6'	Y312746-01	Soil	December 28, 2023 10:45	12/28/2023 14:50
B03@6'	Y312746-02	Soil	December 28, 2023 10:49	12/28/2023 14:50
N01@4'	Y312746-03	Soil	December 28, 2023 10:49	12/28/2023 14:50
S01@4'	Y312746-04	Soil	December 28, 2023 10:51	12/28/2023 14:50
E01@4'	Y312746-05	Soil	December 28, 2023 10:53	12/28/2023 14:50
E02@4'	Y312746-06	Soil	December 28, 2023 10:55	12/28/2023 14:50
W01@4'	Y312746-07	Soil	December 28, 2023 10:57	12/28/2023 14:50
W02@4'	Y312746-08	Soil	December 28, 2023 10:59	12/28/2023 14:50

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 43127440

Client: Tasman

Client Project ID: Greenleaf 16N-15HZ

Checklist Completed by: JH/KHS

Shipped Via: HD

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

Date/time completed: 12/28/23

Airbill #: N/A

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

Cooler Number/Temperature: 1, 4.5 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T004

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 12/28/23

Origins Laboratory, Inc.

[Signature]

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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

B02@6'
12/28/2023 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.148		0.100	mg/L	1	B3L2901	12/29/2023	01/02/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L2827	12/28/2023	12/28/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	0.0364		0.00200	mg/kg	1	B3L2825	12/28/2023	12/28/2023	
1,3,5-Trimethylbenzene	0.191		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.113		0.00200	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.291		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	12.1		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			"	"	"	
Surrogate: Toluene-d8	103 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

B02@6'

12/28/2023 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	105 %	70-130				B3L28 25	12/28/2023	12/28/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]		12/29/2023	01/02/2024	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	2.37	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.022	0.002	mg/kg	1	B3L2822		12/28/2023	12/28/2023	
2-Methylnaphthalene	0.037	0.002	"	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

B02@6'
12/28/2023 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-01 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B3L2822	12/28/2023	12/28/2023	U
Naphthalene	0.010		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %		60-130			"	"	"	
Surrogate: Anthracene-d10	88.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	113 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.43			pH Units	1	B3L2909	12/29/2023	12/30/2023	
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SAR by 20B Saturated Paste

SAR	4.59		0.0100	SAR	1	B3L2906	12/29/2023	01/02/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.307		0.00500	mmhos/cm	1	B3L2909	12/29/2023	12/30/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.35		0.0875	mg/kg	10	B3L2821	12/28/2023	12/29/2023	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

B02@6'

12/28/2023 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-01 (Soil)

Table 915 metals by EPA 6020B

Barium	86.6		8.75	mg/kg	10	B3L2821	12/28/2023	12/29/2023	
Cadmium	ND		0.0875	"	"	"	"	"	
Copper	ND		8.75	"	"	"	"	"	
Lead	6.47		0.875	"	"	"	"	"	
Nickel	6.45		0.875	"	"	"	"	"	
Selenium	0.0901		0.0875	"	"	"	"	"	
Silver	ND		0.0875	"	"	"	"	"	
Zinc	29.1		8.75	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726182	12/28/2023	01/04/2024	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

B03@6'

12/28/2023 10:49:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.12		0.0995	mg/L	1	B3L2901	12/29/2023	01/02/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L2827	12/28/2023	12/28/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	70.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L2825	12/28/2023	12/29/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

B03@6'

12/28/2023 10:49:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B3L28 25	12/28/2023	12/29/2023	
Surrogate: 4-Bromofluorobenzene	91.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]		12/29/2023	01/02/2024	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	5.95	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L2822		12/28/2023	12/28/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"		"	"	U
Acenaphthene	ND	0.020	"	"	"		"	"	U
Anthracene	ND	0.020	"	"	"		"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	U
Chrysene	ND	0.020	"	"	"		"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	U
Fluoranthene	ND	0.020	"	"	"		"	"	U

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

B03@6'

12/28/2023 10:49:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3L2822	12/28/2023	12/28/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	107 %		60-130			"	"	"	
Surrogate: Anthracene-d10	88.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	115 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.84			pH Units	1	B3L2909	12/29/2023	12/30/2023	
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SAR by 20B Saturated Paste

SAR	13.4		0.0100	SAR	1	B3L2906	12/29/2023	01/02/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.557		0.00500	mmhos/cm	1	B3L2909	12/29/2023	12/30/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

B03@6'

12/28/2023 10:49:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.23		0.0985	mg/kg	10	B3L2821	12/28/2023	12/29/2023	
Barium	112		9.85	"	"	"	"	"	
Cadmium	ND		0.0985	"	"	"	"	"	
Copper	9.85		9.85	"	"	"	"	"	
Lead	9.94		0.985	"	"	"	"	"	
Nickel	9.17		0.985	"	"	"	"	"	
Selenium	ND		0.0985	"	"	"	"	"	
Silver	ND		0.0985	"	"	"	"	"	
Zinc	42.9		9.85	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726182	12/28/2023	01/04/2024	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

N01@4'
12/28/2023 10:49:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0996	mg/L	1	B3L2901	12/29/2023	01/02/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L2827	12/28/2023	12/28/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	98.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L2825	12/28/2023	12/29/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

N01@4'
12/28/2023 10:49:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B3L28 25	12/28/2023	12/29/2023	
Surrogate: 4-Bromofluorobenzene	90.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.599		0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L2822	12/28/2023	12/28/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

N01@4'
12/28/2023 10:49:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-03 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3L2822	12/28/2023	12/28/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %		60-130			"	"	"	
Surrogate: Anthracene-d10	87.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	116 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.9 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.29			pH Units	1	B3L2909	12/29/2023	12/30/2023	
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SAR by 20B Saturated Paste

SAR	0.316		0.0100	SAR	1	B3L2906	12/29/2023	01/02/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.145		0.00500	mmhos/cm	1	B3L2909	12/29/2023	12/30/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

N01@4'

12/28/2023 10:49:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y312746-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.86		0.0870	mg/kg	10	B3L2821	12/28/2023	12/29/2023	
Barium	26.1		8.70	"	"	"	"	"	
Cadmium	ND		0.0870	"	"	"	"	"	
Copper	ND		8.70	"	"	"	"	"	
Lead	5.04		0.870	"	"	"	"	"	
Nickel	3.43		0.870	"	"	"	"	"	
Selenium	ND		0.0870	"	"	"	"	"	
Silver	ND		0.0870	"	"	"	"	"	
Zinc	10.9		8.70	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726182	12/28/2023	01/04/2024	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

S01@4'

12/28/2023 10:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y312746-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.134		0.0989	mg/L	1	B3L2901	12/29/2023	01/02/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L2827	12/28/2023	12/29/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L2825	12/28/2023	12/29/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

S01@4'
12/28/2023 10:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	104 %		70-130			B3L28 25	12/28/2023	12/29/2023	
Surrogate: 4-Bromofluorobenzene	89.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.856		0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.723		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L2822	12/28/2023	12/28/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

S01@4'
12/28/2023 10:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-04 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3L2822	12/28/2023	12/28/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %		60-130			"	"	"	
Surrogate: Anthracene-d10	87.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	110 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.3 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.31			pH Units	1	B3L2909	12/29/2023	12/30/2023	
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SAR by 20B Saturated Paste

SAR	0.971		0.0100	SAR	1	B3L2906	12/29/2023	01/02/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.227		0.00500	mmhos/cm	1	B3L2909	12/29/2023	12/30/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

S01@4'

12/28/2023 10:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.63	0.0958	0.0958	mg/kg	10	B3L2821	12/28/2023	12/29/2023	
Barium	54.3	9.58	9.58	"	"	"	"	"	
Cadmium	ND	0.0958	0.0958	"	"	"	"	"	
Copper	ND	9.58	9.58	"	"	"	"	"	
Lead	6.22	0.958	0.958	"	"	"	"	"	
Nickel	5.67	0.958	0.958	"	"	"	"	"	
Selenium	0.121	0.0958	0.0958	"	"	"	"	"	
Silver	ND	0.0958	0.0958	"	"	"	"	"	
Zinc	27.7	9.58	9.58	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726182	12/28/2023	01/04/2024	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

E01@4'
12/28/2023 10:53:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.122		0.101	mg/L	1	B3L2901	12/29/2023	01/02/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L2827	12/28/2023	12/28/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	93.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L2825	12/28/2023	12/29/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

E01@4'
12/28/2023 10:53:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	104 %		70-130			B3L28 25	12/28/2023	12/29/2023	
Surrogate: 4-Bromofluorobenzene	89.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.868		0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.43		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L2822	12/28/2023	12/28/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

E01@4'
12/28/2023 10:53:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-05 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3L2822	12/28/2023	12/28/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	105 %		60-130			"	"	"	
Surrogate: Anthracene-d10	87.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	115 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.25			pH Units	1	B3L2909	12/29/2023	12/30/2023	
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SAR by 20B Saturated Paste

SAR	1.83		0.0100	SAR	1	B3L2906	12/29/2023	01/02/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.362		0.00500	mmhos/cm	1	B3L2909	12/29/2023	12/30/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

E01@4'

12/28/2023 10:53:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y312746-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.99		0.0864	mg/kg	10	B3L2821	12/28/2023	12/29/2023	
Barium	35.0		8.64	"	"	"	"	"	
Cadmium	ND		0.0864	"	"	"	"	"	
Copper	ND		8.64	"	"	"	"	"	
Lead	4.55		0.864	"	"	"	"	"	
Nickel	4.77		0.864	"	"	"	"	"	
Selenium	ND		0.0864	"	"	"	"	"	
Silver	ND		0.0864	"	"	"	"	"	
Zinc	18.7		8.64	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726182	12/28/2023	01/04/2024	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

E02@4'
12/28/2023 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.314		0.0994	mg/L	1	B3L2901	12/29/2023	01/02/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L2827	12/28/2023	12/29/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L2825	12/28/2023	12/29/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

E02@4'
12/28/2023 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B3L28 25	12/28/2023	12/29/2023	
Surrogate: 4-Bromofluorobenzene	91.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.986		0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.83		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L2822	12/28/2023	12/28/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

E02@4'

12/28/2023 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-06 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3L2822	12/28/2023	12/28/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	107 %		60-130			"	"	"	
Surrogate: Anthracene-d10	86.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	114 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.23			pH Units	1	B3L2909	12/29/2023	12/30/2023	
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SAR by 20B Saturated Paste

SAR	2.18		0.0100	SAR	1	B3L2906	12/29/2023	01/02/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.388		0.00500	mmhos/cm	1	B3L2909	12/29/2023	12/30/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

E02@4'

12/28/2023 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-06 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.21		0.0960	mg/kg	10	B3L2821	12/28/2023	12/29/2023	
Barium	73.5		9.60	"	"	"	"	"	
Cadmium	0.122		0.0960	"	"	"	"	"	
Copper	ND		9.60	"	"	"	"	"	
Lead	7.33		0.960	"	"	"	"	"	
Nickel	6.65		0.960	"	"	"	"	"	
Selenium	0.113		0.0960	"	"	"	"	"	
Silver	ND		0.0960	"	"	"	"	"	
Zinc	47.1		9.60	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.502	mg/Kg	1	L726182	12/28/2023	01/04/2024	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

W01@4'
12/28/2023 10:57:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.627		0.101	mg/L	1	B3L2901	12/29/2023	01/02/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L2827	12/28/2023	12/28/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L2825	12/28/2023	12/29/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

W01@4'
12/28/2023 10:57:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B3L28 25	12/28/2023	12/29/2023	
Surrogate: 4-Bromofluorobenzene	89.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.640		0.499	meq/L	10	[CALC]	12/29/2023	01/02/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.94		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L2822	12/28/2023	12/28/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

W01@4'

12/28/2023 10:57:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y312746-07 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3L2822	12/28/2023	12/28/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %		60-130			"	"	"	
Surrogate: Anthracene-d10	86.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	114 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.48			pH Units	1	B3L2909	12/29/2023	12/30/2023	
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SAR by 20B Saturated Paste

SAR	5.71		0.0100	SAR	1	B3L2906	12/29/2023	01/02/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.465		0.00500	mmhos/cm	1	B3L2909	12/29/2023	12/30/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

W01@4'

12/28/2023 10:57:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y312746-07 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.62	0.0853	0.0853	mg/kg	10	B3L2821	12/28/2023	12/29/2023	
Barium	76.2	8.53	8.53	"	"	"	"	"	
Cadmium	0.105	0.0853	0.0853	"	"	"	"	"	
Copper	ND	8.53	8.53	"	"	"	"	"	
Lead	7.20	0.853	0.853	"	"	"	"	"	
Nickel	7.01	0.853	0.853	"	"	"	"	"	
Selenium	0.146	0.0853	0.0853	"	"	"	"	"	
Silver	ND	0.0853	0.0853	"	"	"	"	"	
Zinc	32.8	8.53	8.53	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726184	12/28/2023	01/04/2024	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

W02@4'
12/28/2023 10:59:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.234		0.0996	mg/L	1	B3L2901	12/29/2023	01/02/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L2827	12/28/2023	12/29/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L2825	12/28/2023	12/29/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

W02@4'
12/28/2023 10:59:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	104 %		70-130			B3L28 25	12/28/2023	12/29/2023	
Surrogate: 4-Bromofluorobenzene	90.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.916	0.499	meq/L	10	[CALC]		12/29/2023	01/02/2024	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	1.17	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L2822		12/28/2023	12/28/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

W02@4'

12/28/2023 10:59:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-08 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3L2822	12/28/2023	12/28/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %		60-130			"	"	"	
Surrogate: Anthracene-d10	87.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	114 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.36			pH Units	1	B3L2909	12/29/2023	12/30/2023	
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SAR by 20B Saturated Paste

SAR	1.46		0.0100	SAR	1	B3L2906	12/29/2023	01/02/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.308		0.00500	mmhos/cm	1	B3L2909	12/29/2023	12/30/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

W02@4'

12/28/2023 10:59:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312746-08 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.89	0.0886	0.0886	mg/kg	10	B3L2821	12/28/2023	12/29/2023	
Barium	66.5	8.86	8.86	"	"	"	"	"	
Cadmium	0.0895	0.0886	0.0886	"	"	"	"	"	
Copper	13.9	8.86	8.86	"	"	"	"	"	
Lead	6.44	0.886	0.886	"	"	"	"	"	
Nickel	8.21	0.886	0.886	"	"	"	"	"	
Selenium	0.0904	0.0886	0.0886	"	"	"	"	"	
Silver	ND	0.0886	0.0886	"	"	"	"	"	
Zinc	38.1	8.86	8.86	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L726184	12/28/2023	01/04/2024	
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

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 B3L2825 - EPA 5030 (soil)

Blank (B3L2825-BLK1)

Prepared: 12/28/2023 Analyzed: 12/28/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	101		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	105		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	91.6		70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

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 B3L2825 - EPA 5030 (soil)

LCS (B3L2825-BS1)

Prepared: 12/28/2023 Analyzed: 12/28/2023

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Naphthalene	0.120	0.00380	"	0.100		120	70-130			
Toluene	0.0959	0.00200	"	0.100		95.9	70-130			
o-Xylene	0.109	0.00200	"	0.100		109	70-130			
m,p-Xylene	0.215	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

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 B3L2825 - EPA 5030 (soil)

Matrix Spike (B3L2825-MS1)	Source: Y312745-01			Prepared: 12/28/2023 Analyzed: 12/28/2023						
1,2,4-Trimethylbenzene	0.0901	0.00200	mg/kg	0.100	ND	90.1	70-130			
1,3,5-Trimethylbenzene	0.0918	0.00200	"	0.100	ND	91.8	70-130			
Benzene	0.0925	0.00200	"	0.100	ND	92.5	70-130			
Ethylbenzene	0.0974	0.00200	"	0.100	ND	97.4	70-130			
Naphthalene	0.0817	0.00380	"	0.100	ND	81.7	70-130			
Toluene	0.0839	0.00200	"	0.100	ND	83.9	70-130			
o-Xylene	0.0976	0.00200	"	0.100	ND	97.6	70-130			
m,p-Xylene	0.195	0.00400	"	0.200	ND	97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

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 B3L2825 - EPA 5030 (soil)

Matrix Spike Dup (B3L2825-MSD1)	Source: Y312745-01			Prepared: 12/28/2023 Analyzed: 12/28/2023						
1,2,4-Trimethylbenzene	0.0931	0.00200	mg/kg	0.100	ND	93.1	70-130	3.23	20	
1,3,5-Trimethylbenzene	0.0939	0.00200	"	0.100	ND	93.9	70-130	2.24	20	
Benzene	0.0929	0.00200	"	0.100	ND	92.9	70-130	0.475	20	
Ethylbenzene	0.0989	0.00200	"	0.100	ND	98.9	70-130	1.53	20	
Naphthalene	0.112	0.00380	"	0.100	ND	112	70-130	31.3	20	QR-02
Toluene	0.0864	0.00200	"	0.100	ND	86.4	70-130	2.87	20	
o-Xylene	0.100	0.00200	"	0.100	ND	100	70-130	2.69	20	
m,p-Xylene	0.197	0.00400	"	0.200	ND	98.7	70-130	1.16	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

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 B3L2827 - EPA 3550B										
Blank (B3L2827-BLK1)										
					Prepared: 12/28/2023 Analyzed: 12/28/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		106	50-150			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

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 B3L2827 - EPA 3550B

LCS (B3L2827-BS1)

Prepared: 12/28/2023 Analyzed: 12/28/2023

Diesel (C10-C28)	1130	50.0	mg/kg	1000		113	70-130			
Residual Range Organics (C28-C40)	1160	200	"	1000		116	70-130			
Surrogate: o-Terphenyl	65		"	49.8		131	50-150			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

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 B3L2827 - EPA 3550B

Matrix Spike (B3L2827-MS1)	Source: Y312745-01			Prepared: 12/28/2023 Analyzed: 12/28/2023						
Diesel (C10-C28)	1190	50.0	mg/kg	1000	ND	119	70-130			
Residual Range Organics (C28-C40)	1230	200	"	1000	ND	123	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

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 B3L2827 - EPA 3550B										
Matrix Spike Dup (B3L2827-MSD1)					Source: Y312745-01					Prepared: 12/28/2023 Analyzed: 12/28/2023
Diesel (C10-C28)	1300	50.0	mg/kg	1000	ND	130	70-130	8.76	35	
Residual Range Organics (C28-C40)	1330	200	"	1000	ND	133	70-130	8.07	35	QM-07
Surrogate: o-Terphenyl	57		"	49.8		115	50-150			

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 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3L2821 - EPA 3050B

Blank (B3L2821-BLK1)

Prepared: 12/28/2023 Analyzed: 12/29/2023

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	1.00	"							

LCS (B3L2821-BS1)

Prepared: 12/28/2023 Analyzed: 12/29/2023

Arsenic	4.95	0.0100	mg/kg	5.00		99.0	80-120			
Barium	511	1.00	"	500		102	80-120			
Cadmium	5.14	0.0100	"	5.00		103	80-120			
Copper	51.2	1.00	"	50.0		102	80-120			
Lead	5.00	0.100	"	5.00		100	80-120			
Nickel	4.89	0.100	"	5.00		97.8	80-120			
Selenium	4.71	0.0100	"	5.00		94.2	80-120			
Silver	5.04	0.0100	"	5.00		101	80-120			
Zinc	48.5	1.00	"	50.0		97.1	80-120			

Matrix Spike (B3L2821-MS1)

Source: Y312724-01

Prepared: 12/28/2023 Analyzed: 12/29/2023

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3L2821 - EPA 3050B

Matrix Spike (B3L2821-MS1)		Source: Y312724-01			Prepared: 12/28/2023 Analyzed: 12/29/2023					
Arsenic	7.02	0.0897	mg/kg	4.48	2.03	111	75-125			
Barium	589	8.97	"	448	74.5	115	75-125			
Cadmium	5.35	0.0897	"	4.48	0.161	116	75-125			
Copper	58.0	8.97	"	44.8	7.35	113	75-125			
Lead	16.1	0.897	"	4.48	8.78	164	75-125			QM-07
Nickel	10.2	0.897	"	4.48	5.12	114	75-125			
Selenium	4.42	0.0897	"	4.48	0.119	95.9	75-125			
Silver	5.17	0.0897	"	4.48	0.0429	114	75-125			
Zinc	81.2	8.97	"	44.8	31.1	112	75-125			

Matrix Spike Dup (B3L2821-MSD1)		Source: Y312724-01			Prepared: 12/28/2023 Analyzed: 12/29/2023					
Arsenic	6.84	0.0912	mg/kg	4.56	2.03	106	75-125	2.61	20	
Barium	579	9.12	"	456	74.5	111	75-125	1.63	20	
Cadmium	5.35	0.0912	"	4.56	0.161	114	75-125	0.0733	20	
Copper	58.2	9.12	"	45.6	7.35	112	75-125	0.358	20	
Lead	15.3	0.912	"	4.56	8.78	142	75-125	5.55	20	QM-07
Nickel	10.2	0.912	"	4.56	5.12	112	75-125	0.0674	20	
Selenium	4.56	0.0912	"	4.56	0.119	97.3	75-125	3.08	20	
Silver	5.17	0.0912	"	4.56	0.0429	112	75-125	0.0180	20	
Zinc	81.3	9.12	"	45.6	31.1	110	75-125	0.150	20	

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3L2822 - EPA 3580

Blank (B3L2822-BLK1)

Prepared: 12/28/2023 Analyzed: 12/28/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		92.6	60-130			
Surrogate: Pyrene-d10	220		"	200		108	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

LCS (B3L2822-BS1)

Prepared: 12/28/2023 Analyzed: 12/28/2023

1-Methylnaphthalene	0.205	0.002	mg/kg	0.200		103	70-130			
2-Methylnaphthalene	0.205	0.002	"	0.200		103	70-130			
Acenaphthene	0.211	0.020	"	0.200		106	70-130			
Anthracene	0.200	0.020	"	0.200		99.9	70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3L2822 - EPA 3580

LCS (B3L2822-BS1)

Prepared: 12/28/2023 Analyzed: 12/28/2023

Benzo (a) anthracene	0.206	0.005	mg/kg	0.200		103	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200		97.5	70-130			
Benzo (b) fluoranthene	0.205	0.020	"	0.200		103	70-130			
Benzo (g,h,i) perylene	0.201	0.020	"	0.200		101	70-130			
Benzo (k) fluoranthene	0.180	0.020	"	0.200		89.8	70-130			
Chrysene	0.223	0.020	"	0.200		111	70-130			
Dibenz (a,h) anthracene	0.191	0.020	"	0.200		95.7	70-130			
Fluoranthene	0.193	0.020	"	0.200		96.5	70-130			
Fluorene	0.226	0.020	"	0.200		113	70-130			
Indeno (1,2,3-cd) pyrene	0.200	0.020	"	0.200		99.8	70-130			
Naphthalene	0.210	0.002	"	0.200		105	70-130			
Phenanthrene	0.208	0.020	"	0.200		104	70-130			
Pyrene	0.223	0.020	"	0.200		111	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	190		"	200		92.7	60-130			
Surrogate: Pyrene-d10	220		"	200		111	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.5	60-130			

Matrix Spike (B3L2822-MS1)

Source: Y312745-01

Prepared: 12/28/2023 Analyzed: 12/28/2023

1-Methylnaphthalene	0.209	0.002	mg/kg	0.200	ND	105	70-130			
2-Methylnaphthalene	0.208	0.002	"	0.200	ND	104	70-130			
Acenaphthene	0.217	0.020	"	0.200	ND	109	70-130			
Anthracene	0.192	0.020	"	0.200	ND	95.8	70-130			
Benzo (a) anthracene	0.205	0.005	"	0.200	ND	103	70-130			
Benzo (a) pyrene	0.214	0.020	"	0.200	ND	107	70-130			
Benzo (b) fluoranthene	0.218	0.020	"	0.200	0.0005	109	70-130			
Benzo (g,h,i) perylene	0.209	0.020	"	0.200	0.0007	104	70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3L2822 - EPA 3580

Matrix Spike (B3L2822-MS1)		Source: Y312745-01			Prepared: 12/28/2023 Analyzed: 12/28/2023					
Benzo (k) fluoranthene	0.202	0.020	mg/kg	0.200	ND	101	70-130			
Chrysene	0.219	0.020	"	0.200	0.0004	109	70-130			
Dibenz (a,h) anthracene	0.204	0.020	"	0.200	0.002	101	70-130			
Fluoranthene	0.198	0.020	"	0.200	ND	98.8	70-130			
Fluorene	0.233	0.020	"	0.200	ND	116	70-130			
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200	ND	103	70-130			
Naphthalene	0.216	0.002	"	0.200	ND	108	70-130			
Phenanthrene	0.214	0.020	"	0.200	ND	107	70-130			
Pyrene	0.227	0.020	"	0.200	0.0005	113	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	180		"	200		91.8	60-130			
Surrogate: Pyrene-d10	220		"	200		110	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike Dup (B3L2822-MSD1)		Source: Y312745-01			Prepared: 12/28/2023 Analyzed: 12/28/2023					
1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	ND	103	70-130	1.20	20	
2-Methylnaphthalene	0.206	0.002	"	0.200	ND	103	70-130	0.973	20	
Acenaphthene	0.218	0.020	"	0.200	ND	109	70-130	0.479	20	
Anthracene	0.193	0.020	"	0.200	ND	96.4	70-130	0.566	20	
Benzo (a) anthracene	0.209	0.005	"	0.200	ND	104	70-130	1.68	20	
Benzo (a) pyrene	0.201	0.020	"	0.200	ND	100	70-130	6.45	20	
Benzo (b) fluoranthene	0.213	0.020	"	0.200	0.0005	106	70-130	2.55	20	
Benzo (g,h,i) perylene	0.213	0.020	"	0.200	0.0007	106	70-130	2.10	20	
Benzo (k) fluoranthene	0.196	0.020	"	0.200	ND	98.0	70-130	3.00	20	
Chrysene	0.218	0.020	"	0.200	0.0004	109	70-130	0.288	20	
Dibenz (a,h) anthracene	0.199	0.020	"	0.200	0.002	98.6	70-130	2.46	20	
Fluoranthene	0.201	0.020	"	0.200	ND	100	70-130	1.52	20	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3L2822 - EPA 3580

Matrix Spike Dup (B3L2822-MSD1)	Source: Y312745-01			Prepared: 12/28/2023 Analyzed: 12/28/2023						
Fluorene	0.233	0.020	mg/kg	0.200	ND	117	70-130	0.211	20	
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200	ND	103	70-130	0.118	20	
Naphthalene	0.213	0.002	"	0.200	ND	106	70-130	1.22	20	
Phenanthrene	0.214	0.020	"	0.200	ND	107	70-130	0.392	20	
Pyrene	0.229	0.020	"	0.200	0.0005	114	70-130	0.711	20	
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	190		"	200		92.5	60-130			
Surrogate: Pyrene-d10	220		"	200		110	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.1	60-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

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 B3L2901 - DTPA Sorbitol Preparation

Blank (B3L2901-BLK1)

Prepared: 12/29/2023 Analyzed: 01/02/2024

Boron ND 0.100 mg/L

Duplicate (B3L2901-DUP1)

Source: Y312722-01

Prepared: 12/29/2023 Analyzed: 01/02/2024

Boron 0.0796 0.102 mg/L 0.0718 10.3 50

Batch B3L2906 - Saturated Paste Metals

Blank (B3L2906-BLK1)

Prepared: 12/29/2023 Analyzed: 01/02/2024

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3L2906-DUP1)

Source: Y312745-11

Prepared: 12/29/2023 Analyzed: 01/02/2024

SAR ND 0.0100 SAR 12.3 200

Calcium PPM 7.57 10.0 mg/L 4.77 45.4 50

Magnesium PPM 5.21 10.0 " 3.68 34.4 50

Sodium PPM 140 10.0 " 147 4.86 50

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L2909 - Saturated Paste pH/EC										
Blank (B3L2909-BLK1)					Prepared: 12/29/2023 Analyzed: 12/30/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3L2909-DUP1)					Source: Y312745-11 Prepared: 12/29/2023 Analyzed: 12/30/2023					
pH	8.56		pH Units		8.61			0.582	25	
Specific Conductance (EC)	0.823	0.00500	mmhos/cm		0.799			2.96	25	

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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

**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 L726184 -										
DUP (L 85044-DUP)		Source: 85044			Prepared: Analyzed: 01/04/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 85044-MS)		Source: 85044			Prepared: Analyzed: 01/04/2024					
Chromium, Hexavalent	29.8	2.5	mg/Kg	39	<1.22	76	75-125			
LCS (LCS)		Prepared: Analyzed: 01/04/2024								
Chromium, Hexavalent	6.4	0.5	mg/Kg	8		80	75-125			
LRB (LRB)		Prepared: Analyzed: 01/04/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Tasman Geosciences
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Andy Sagen
 Project Number: [none]
 Project: KMG - Greenleaf 16N-15HZ

**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 L726182 -										
DUP (L 85031-DUP)		Source: Y312746-03			Prepared: Analyzed: 01/04/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 85031-MS)		Source: Y312746-03			Prepared: Analyzed: 01/04/2024					
Chromium, Hexavalent	31.6	2.5	mg/Kg	39.5	<1.22	80	75-125			
LCS (LCS)		Prepared: Analyzed: 01/04/2024								
Chromium, Hexavalent	6.22	0.5	mg/Kg	8		78	75-125			
LRB (LRB)		Prepared: Analyzed: 01/04/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Tasman Geosciences
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Andy Sagen
Project Number: [none]
Project: KMG - Greenleaf 16N-15HZ

Notes and Definitions

U Sample is Non-Detect.

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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