



May 25, 2022

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

**Project Name - KMG - Zabka 11-15 OSA**

**Project Number - [none]**

Attached are your analytical results for KMG - Zabka 11-15 OSA received by Origins Laboratory, Inc. May 10, 2022. This project is associated with Origins project number Y205228-01.

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

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

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

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

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

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



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

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

**CROSS REFERENCE REPORT**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST-B02@3"	Y205228-01	Soil	May 10, 2022 11:00	05/10/2022 17:04
AST-B04@3"	Y205228-02	Soil	May 10, 2022 11:02	05/10/2022 17:04
AST-B05@6"	Y205228-03	Soil	May 10, 2022 11:04	05/10/2022 17:04
PW-B01@3"	Y205228-04	Soil	May 10, 2022 11:06	05/10/2022 17:04
PW-N01@3"	Y205228-05	Soil	May 10, 2022 11:08	05/10/2022 17:04
SEP-B01@3'	Y205228-06	Soil	May 10, 2022 11:10	05/10/2022 17:04
SEP-B02@3'	Y205228-07	Soil	May 10, 2022 11:12	05/10/2022 17:04
SEP-B03@3'	Y205228-08	Soil	May 10, 2022 11:14	05/10/2022 17:04
SEP-B04@3'	Y205228-09	Soil	May 10, 2022 11:16	05/10/2022 17:04
BG-01@2'	Y205228-10	Soil	May 10, 2022 11:18	05/10/2022 17:04
BG-01@4'	Y205228-11	Soil	May 10, 2022 11:20	05/10/2022 17:04
BG-02@2'	Y205228-12	Soil	May 10, 2022 11:22	05/10/2022 17:04
BG-02@4'	Y205228-13	Soil	May 10, 2022 11:24	05/10/2022 17:04
BG-03@2'	Y205228-14	Soil	May 10, 2022 11:26	05/10/2022 17:04

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Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG-03@4'	Y205228-15	Soil	May 10, 2022 11:28	05/10/2022 17:04
BG-04@2'	Y205228-16	Soil	May 10, 2022 11:30	05/10/2022 17:04
BG-04@4'	Y205228-17	Soil	May 10, 2022 11:32	05/10/2022 17:04

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

**ORIGINS**  
LABORATORY, INC

www.originslaboratory.com

120522X

page 1 of 2

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

Project Manager: Mike Jahn  
Project Name: Zabka 11-15 OSA  
Project Number:  
Samples Collected By: P. Downs

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix		Analysis					Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	GC/MS	Dechloro	TM6	PH	
AST-B02@3"	5-10-22	11:00	2	X					X		X	X				Full 415 added to
AST-B04@3"		11:02														AST-B05@6"
AST-B05@6"		11:04														+ metals added to
PW-B01@3"		11:06														all B6 samples
PW-B01@3"		11:08									X	X	X	X		per the email
SEP-B01@3'		11:10														from Enc on
SEP-B02@3'		11:12														5/11/22. 9p
SEP-B03@3'		11:14														
SEP-B04@3'		11:16														
B6-01@2'		11:18											X	X	X	
Relinquished by:	Date: 5-10-22		Time: 11:04	Time: 11:04	Received By: KH	Date: 5/10/22	Time: 17:04	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>								
P. Downs																

Date Results Needed

Temp Received- 34

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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Tasman Geosciences  
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Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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page 2 of 2

ORIGINS  
LABORATORY, INC

Client: OxY  
Address: \_\_\_\_\_  
Telephone Number: \_\_\_\_\_  
Email Address: m.jahn@tasman-geo.com

Project Manager: Mike Jahn  
Project Name: Zabka 11-15 OSA  
Project Number: \_\_\_\_\_  
Samples Collected By: P. Downs

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions			
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other	PH	EC	SAR		Boron		
BG-01@4'	5-10-22	11:20	2	+						X				X				
BG-02@2'		11:22												X				
BG-02@4'		11:24												X				
BG-03@2'		11:26												X				
BG-03@4'		11:28												X				
BG-04@2'		11:30												X				
BG-04@4'		11:32												X				

  

Relinquished By: <u>P. Downs</u>	Date: <u>5-10-22</u>	Time: <u>164</u>	Received By: <u>SA</u>	Date: <u>5/10/22</u>	Time: <u>1704</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	

Date Results Needed

Temp Received: 3.1

Origins Laboratory, Inc.

*Jen Pellegrini*

Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 70522X

Client: Tasman

Client Project ID: Zabka 11-15 OSA

Checklist Completed by: OKH

Shipped Via: HD

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

Date/time completed: 5/10/12

Airbill #: NA

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

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

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<u>-</u>		<u>same day</u>
Is there ice present (document if blue ice is used)	<u>-</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>-</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>-</u>		
Were all samples received intact <sup>(1)</sup> ?	<u>-</u>			
Was adequate sample volume provided <sup>(1)</sup> ?	<u>-</u>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<u>-</u>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<u>-</u>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<u>-</u>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<u>-</u>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<u>-</u>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<u>-</u>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<u>-</u>	
Additional Comments (if any):				

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

[Signature]  
Reviewed by (Project Manager)

5/10/12  
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

Jen Pellegrini, Project Manager

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Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

AST-B02@3"

5/10/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y205228-01 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1036	05/10/2022	05/10/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 95.9 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1035	05/10/2022	05/10/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "  
Surrogate: Toluene-d8 95.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.1 % 70-130 " " "

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

AST-B04@3"

5/10/2022 11:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y205228-02 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1036	05/10/2022	05/10/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 90.4 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1035	05/10/2022	05/10/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 96.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.4 % 70-130 " " "

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

## AST-B05@6"

5/10/2022 11:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y205228-03 (Soil)

### Boron (DTPA Sorbitol)

Boron	ND	0.0993	mg/L	1	B2E1111	05/11/2022	05/12/2022	U
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	557	25.0	mg/kg	1	B2E1036	05/10/2022	05/10/2022	
Residual Range Organics (C28-C40)	579	100	"	"	"	"	"	

Surrogate: o-Terphenyl	80.8 %	50-150			"	"	"	
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1035	05/10/2022	05/10/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

## AST-B05@6"

5/10/2022 11:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y205228-03 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			B2E10 35	05/10/2022	05/10/2022	
Surrogate: Toluene-d8	96.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

### Metals by Saturated Paste by EPA 6010

Calcium	0.853		0.499	meq/L	10	[CALC]	05/11/2022	05/12/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

### PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00364	0.0067	mg/Kg	10	L617027	05/19/2022	05/19/2022	
2-Methylnaphthalene	ND	0.00645	0.0067	"	"	"	"	"	
Acenaphthene	ND	0.00304	0.0067	"	"	"	"	"	
Anthracene	0.00772	0.00334	0.0067	"	"	"	"	"	
Benzo(a)anthracene	0.00835	0.00493	0.0067	"	"	"	"	"	
Benzo(a)pyrene	0.00482	0.00468	0.0067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.00585	0.0067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"	
Chrysene	ND	0.00624	0.0067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"	
Fluoranthene	ND	0.00394	0.0067	"	"	"	"	"	

Origins Laboratory, Inc.



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Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

## AST-B05@6"

5/10/2022 11:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, Inc. Y205228-03 (Soil)

### PAH by 8270D SIM

Fluorene	ND	0.00286	0.0067	mg/Kg	10	L617027	05/19/2022	05/19/2022
Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	"	"	"	"	"
Naphthalene	ND	0.00484	0.0067	"	"	"	"	"
Pyrene	ND	0.00643	0.0067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	63.2 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	75.4 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	53.5 %		29-110			"	"	"

### pH in Soil by 9045D

pH	7.53			pH Units	1	B2E1110	05/11/2022	05/12/2022
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### SAR by 20B Saturated Paste

SAR	0.201			SAR	1	B2E1109	05/11/2022	05/12/2022
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.168		0.00500	mmhos/cm	1	B2E1110	05/11/2022	05/12/2022
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### Total Metals by 6020B

Arsenic	0.549	0.0855	0.25	mg/Kg	5	L616080	05/13/2022	05/21/2022
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6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

AST-B05@6"

5/10/2022 11:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y205228-03 (Soil)

## Total Metals by 6020B

Barium	26	0.042	0.25	mg/Kg	5	L616080	05/13/2022	05/21/2022	
Cadmium	ND	0.0259	0.25	"	"	"	"	"	
Copper	3.13	0.0806	0.25	"	"	"	"	"	
Lead	2.5	0.031	0.25	"	"	"	"	"	
Nickel	2.43	0.0633	0.25	"	"	"	"	"	
Selenium	0.248	0.103	0.25	"	"	"	"	"	J
Silver	0.0133	0.0067	0.25	"	"	"	"	"	J
Zinc	11	0.534	2.5	"	"	"	"	"	

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L617090	05/10/2022	05/19/2022	
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Tasman Geosciences  
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Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

PW-B01@3"

5/10/2022 11:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205228-04 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1036	05/10/2022	05/10/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1035	05/10/2022	05/10/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 98.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.3 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

PW-N01@3"

5/10/2022 11:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205228-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.404	0.101	mg/L	1	B2E1111	05/11/2022	05/12/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1036	05/10/2022	05/10/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.2 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1035	05/10/2022	05/10/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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



Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

PW-N01@3"

5/10/2022 11:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205228-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	B2E1035	05/10/2022	05/10/2022
Surrogate: Toluene-d8	96.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	0.594	0.499	meq/L	10	[CALC]	05/11/2022	05/12/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.08	pH Units	1	B2E1110	05/11/2022	05/12/2022
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**SAR by 20B Saturated Paste**

SAR	0.264	SAR	1	B2E1109	05/11/2022	05/12/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.136	0.00500	mmhos/cm	1	B2E1110	05/11/2022	05/12/2022
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

SEP-B01@3'

5/10/2022 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205228-06 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1036	05/10/2022	05/10/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.0 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1035	05/10/2022	05/10/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "  
Surrogate: Toluene-d8 95.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.4 % 70-130 " " "

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

SEP-B02@3'

5/10/2022 1:12:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y205228-07 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1036	05/10/2022	05/10/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 82.9 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1035	05/10/2022	05/10/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "  
Surrogate: Toluene-d8 97.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 99.8 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

SEP-B03@3'

5/10/2022 11:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205228-08 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1036	05/10/2022	05/10/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1035	05/10/2022	05/10/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "  
Surrogate: Toluene-d8 96.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.6 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

SEP-B04@3'  
5/10/2022 1:16:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205228-09 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1036	05/10/2022	05/10/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 94.8 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1035	05/10/2022	05/11/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "  
Surrogate: Toluene-d8 95.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.7 % 70-130 " " "

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

BG-01@2'

5/10/2022 11:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y205228-10 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.242	0.101	mg/L	1	B2E1111	05/11/2022	05/12/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	1.81	0.499	meq/L	10	[CALC]	05/11/2022	05/12/2022
Magnesium	1.08	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.44	pH Units	1	B2E1110	05/11/2022	05/12/2022
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## SAR by 20B Saturated Paste

SAR	0.174	SAR	1	B2E1109	05/11/2022	05/12/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.389	0.00500	mmhos/cm	1	B2E1110	05/11/2022	05/12/2022
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## Total Metals by 6020B

Arsenic	3.18	0.0855	0.25	mg/Kg	5	L616080	05/13/2022	05/21/2022
Barium	135	0.042	0.25	"	"	"	"	"
Cadmium	0.179	0.0259	0.25	"	"	"	"	"
Copper	9.47	0.0806	0.25	"	"	"	"	"

J

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

BG-01@2'

5/10/2022 11:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y205228-10 (Soil)

## Total Metals by 6020B

Lead	8.18	0.031	0.25	mg/Kg	5	L616080	05/13/2022	05/21/2022	
Nickel	12.4	0.0633	0.25	"	"	"	"	"	
Selenium	0.468	0.103	0.25	"	"	"	"	"	
Silver	0.0424	0.0067	0.25	"	"	"	"	"	J
Zinc	42.2	0.534	2.5	"	"	"	"	"	

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L617090	05/10/2022	05/19/2022	
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Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

BG-01@4'

5/10/2022 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y205228-11 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.203	0.102	mg/L	1	B2E1111	05/11/2022	05/12/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	1.34	0.499	meq/L	10	[CALC]	05/11/2022	05/12/2022
Magnesium	2.20	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.52	pH Units	1	B2E1110	05/11/2022	05/12/2022
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## SAR by 20B Saturated Paste

SAR	0.193	SAR	1	B2E1109	05/11/2022	05/12/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.458	0.00500	mmhos/cm	1	B2E1110	05/11/2022	05/12/2022
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## Total Metals by 6020 B

Arsenic	2.07	0.0855	0.25	mg/Kg	5	L616411	05/16/2022	05/18/2022
Barium	186	0.171	1	"	20	"	"	"
Cadmium	0.164	0.0259	0.25	"	5	"	"	"
Copper	10.3	0.0806	0.25	"	"	"	"	"

J

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

BG-01@4'

5/10/2022 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y205228-11 (Soil)

### Total Metals by 6020 B

Lead	8.8	0.031	0.25	mg/Kg	5	L616411	05/16/2022	05/18/2022	
Nickel	12.5	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.043	0.0067	0.25	"	"	"	"	"	J
Zinc	44.5	0.534	2.5	"	"	"	"	"	

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.511	mg/Kg	1	L617090	05/10/2022	05/19/2022	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

**BG-02@2'**

**5/10/2022 11:22:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205228-12 (Soil)**

## Boron (DTPA Sorbitol)

Boron	0.401	0.100	mg/L	1	B2E1111	05/11/2022	05/12/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	9.55	0.499	meq/L	10	[CALC]	05/11/2022	05/12/2022
Magnesium	3.69	0.823	"	"	"	"	"
Sodium	1.50	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.20		pH Units	1	B2E1110	05/11/2022	05/12/2022
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## SAR by 20B Saturated Paste

SAR	0.583		SAR	1	B2E1109	05/11/2022	05/12/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.81	0.00500	mmhos/cm	1	B2E1110	05/11/2022	05/12/2022
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## Total Metals by 6020 B

Arsenic	2.54	0.0855	0.25	mg/Kg	5	L616411	05/16/2022	05/18/2022
Barium	161	0.171	1	"	20	"	"	"
Cadmium	0.198	0.0259	0.25	"	5	"	"	"
Copper	10.5	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

BG-02@2'

5/10/2022 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y205228-12 (Soil)

## Total Metals by 6020 B

Lead	8.64	0.031	0.25	mg/Kg	5	L616411	05/16/2022	05/18/2022	
Nickel	12.3	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0515	0.0067	0.25	"	"	"	"	"	J
Zinc	40	0.534	2.5	"	"	"	"	"	

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L617090	05/10/2022	05/19/2022	
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Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

BG-02@4'

5/10/2022 11:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y205228-13 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.365	0.101	mg/L	1	B2E1111	05/11/2022	05/12/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	7.67	0.499	meq/L	10	[CALC]	05/11/2022	05/12/2022
Magnesium	5.96	0.823	"	"	"	"	"
Sodium	1.90	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.30		pH Units	1	B2E1110	05/11/2022	05/12/2022
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## SAR by 20B Saturated Paste

SAR	0.726		SAR	1	B2E1109	05/11/2022	05/12/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.83	0.00500	mmhos/cm	1	B2E1110	05/11/2022	05/12/2022
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## Total Metals by 6020 B

Arsenic	1.92	0.0855	0.25	mg/Kg	5	L616411	05/16/2022	05/18/2022
Barium	134	0.171	1	"	20	"	"	"
Cadmium	0.161	0.0259	0.25	"	5	"	"	"
Copper	8.98	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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



Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

BG-02@4'

5/10/2022 11:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y205228-13 (Soil)

## Total Metals by 6020 B

Lead	8.02	0.031	0.25	mg/Kg	5	L616411	05/16/2022	05/18/2022	
Nickel	11.3	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0367	0.0067	0.25	"	"	"	"	"	J
Zinc	39.5	0.534	2.5	"	"	"	"	"	

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L617090	05/10/2022	05/19/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

BG-03@2'

5/10/2022 11:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y205228-14 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.240	0.100	mg/L	1	B2E1111	05/11/2022	05/12/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	2.04	0.499	meq/L	10	[CALC]	05/11/2022	05/12/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.54		pH Units	1	B2E1110	05/11/2022	05/12/2022
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## SAR by 20B Saturated Paste

SAR	0.0523		SAR	1	B2E1109	05/11/2022	05/12/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.295	0.00500	mmhos/cm	1	B2E1110	05/11/2022	05/12/2022
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## Total Metals by 6020 B

Arsenic	2.39	0.0855	0.25	mg/Kg	5	L616411	05/16/2022	05/18/2022
Barium	161	0.171	1	"	20	"	"	"
Cadmium	0.192	0.0259	0.25	"	5	"	"	"
Copper	10.7	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

**BG-03@2'**

**5/10/2022 11:26:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y205228-14 (Soil)**

### Total Metals by 6020 B

Lead	9.1	0.031	0.25	mg/Kg	5	L616411	05/16/2022	05/18/2022	
Nickel	12.9	0.0633	0.25	"	"	"	"	"	
Selenium	0.137	0.103	0.25	"	"	"	"	"	J
Silver	0.0515	0.0067	0.25	"	"	"	"	"	J
Zinc	43.4	0.534	2.5	"	"	"	"	"	

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L617090	05/10/2022	05/19/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

BG-03@4'

5/10/2022 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205228-15 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.142	0.101	mg/L	1	B2E1111	05/11/2022	05/12/2022
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.81	0.499	meq/L	10	[CALC]	05/11/2022	05/12/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.59	pH Units	1	B2E1110	05/11/2022	05/12/2022
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**SAR by 20B Saturated Paste**

SAR	0.0544	SAR	1	B2E1109	05/11/2022	05/12/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.313	0.00500	mmhos/cm	1	B2E1110	05/11/2022	05/12/2022
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**Total Metals by 6020 B**

Arsenic	2.14	0.0855	0.25	mg/Kg	5	L616411	05/16/2022	05/18/2022
Barium	153	0.171	1	"	20	"	"	"
Cadmium	0.161	0.0259	0.25	"	5	"	"	"
Copper	10.3	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

BG-03@4'

5/10/2022 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
Y205228-15 (Soil)

**Total Metals by 6020 B**

Lead	9.05	0.031	0.25	mg/Kg	5	L616411	05/16/2022	05/18/2022	
Nickel	12.7	0.0633	0.25	"	"	"	"	"	
Selenium	0.11	0.103	0.25	"	"	"	"	"	J
Silver	0.0473	0.0067	0.25	"	"	"	"	"	J
Zinc	44	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.251	0.516	mg/Kg	1	L617090	05/10/2022	05/19/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

BG-04@2'

5/10/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205228-16 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.238	0.0990	mg/L	1	B2E1111	05/11/2022	05/12/2022
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**Metals by Saturated Paste by EPA 6010**

Calcium	3.16	0.499	meq/L	10	[CALC]	05/12/2022	05/13/2022
Magnesium	1.37	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.20	pH Units	1	B2E1202	05/12/2022	05/13/2022
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**SAR by 20B Saturated Paste**

SAR	0.194	SAR	1	B2E1201	05/12/2022	05/13/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.513	0.00500	mmhos/cm	1	B2E1202	05/12/2022	05/13/2022
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**Total Metals by 6020 B**

Arsenic	1.95	0.0855	0.25	mg/Kg	5	L616411	05/16/2022	05/18/2022
Barium	126	0.171	1	"	20	"	"	"
Cadmium	0.16	0.0259	0.25	"	5	"	"	"
Copper	9.37	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

BG-04@2'

5/10/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
Y205228-16 (Soil)

**Total Metals by 6020 B**

Lead	8.12	0.031	0.25	mg/Kg	5	L616411	05/16/2022	05/18/2022	
Nickel	11.7	0.0633	0.25	"	"	"	"	"	
Selenium	0.112	0.103	0.25	"	"	"	"	"	J
Silver	0.0472	0.0067	0.25	"	"	"	"	"	J
Zinc	40	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L617090	05/10/2022	05/19/2022	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

BG-04@4'

5/10/2022 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y205228-17 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.260	0.100	mg/L	1	B2E1111	05/11/2022	05/12/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	2.46	0.499	meq/L	10	[CALC]	05/12/2022	05/13/2022
Magnesium	1.99	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.23	pH Units	1	B2E1202	05/12/2022	05/13/2022
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## SAR by 20B Saturated Paste

SAR	0.254	SAR	1	B2E1201	05/12/2022	05/13/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.504	0.00500	mmhos/cm	1	B2E1202	05/12/2022	05/13/2022
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## Total Metals by 6020 B

Arsenic	1.89	0.0855	0.25	mg/Kg	5	L616411	05/16/2022	05/18/2022
Barium	188	0.171	1	"	20	"	"	"
Cadmium	0.16	0.0259	0.25	"	5	"	"	"
Copper	9.1	0.0806	0.25	"	"	"	"	"

J

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

BG-04@4'

5/10/2022 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y205228-17 (Soil)

## Total Metals by 6020 B

Lead	8.17	0.031	0.25	mg/Kg	5	L616411	05/16/2022	05/18/2022	
Nickel	11.4	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.031	0.0067	0.25	"	"	"	"	"	J
Zinc	40.4	0.534	2.5	"	"	"	"	"	

## Total Metals by 7196 A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L617091	05/10/2022	05/19/2022	
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Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2E1035 - EPA 5030 (soil)</b>										
<b>Blank (B2E1035-BLK1)</b>					Prepared: 05/10/2022 Analyzed: 05/10/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.7	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2E1035 - EPA 5030 (soil)**

**LCS (B2E1035-BS1)**

Prepared: 05/10/2022 Analyzed: 05/10/2022

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.0984	0.00200	"	0.100		98.4	70-130			
Naphthalene	0.100	0.0100	"	0.100		100	70-130			
Toluene	0.106	0.00200	"	0.100		106	70-130			
o-Xylene	0.0996	0.00200	"	0.100		99.6	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2E1035 - EPA 5030 (soil)**

Matrix Spike (B2E1035-MS1)		Source: Y205224-07			Prepared: 05/10/2022 Analyzed: 05/10/2022					
1,2,4-Trimethylbenzene	0.0979	0.00200	mg/kg	0.100	ND	97.9	70-130			
1,3,5-Trimethylbenzene	0.0962	0.00200	"	0.100	ND	96.2	70-130			
Benzene	0.105	0.00200	"	0.100	ND	105	70-130			
Ethylbenzene	0.0948	0.00200	"	0.100	ND	94.8	70-130			
Naphthalene	0.104	0.0100	"	0.100	ND	104	70-130			
Toluene	0.104	0.00200	"	0.100	ND	104	70-130			
o-Xylene	0.0958	0.00200	"	0.100	ND	95.8	70-130			
m,p-Xylene	0.190	0.00400	"	0.200	ND	95.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2E1035 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2E1035-MSD1)</b>		<b>Source: Y205224-07</b>			Prepared: 05/10/2022 Analyzed: 05/10/2022					
1,2,4-Trimethylbenzene	0.0971	0.00200	mg/kg	0.100	ND	97.1	70-130	0.779	20	
1,3,5-Trimethylbenzene	0.0960	0.00200	"	0.100	ND	96.0	70-130	0.208	20	
Benzene	0.104	0.00200	"	0.100	ND	104	70-130	0.573	20	
Ethylbenzene	0.0943	0.00200	"	0.100	ND	94.3	70-130	0.592	20	
Naphthalene	0.108	0.0100	"	0.100	ND	108	70-130	4.03	20	
Toluene	0.107	0.00200	"	0.100	ND	107	70-130	2.78	20	
o-Xylene	0.0955	0.00200	"	0.100	ND	95.5	70-130	0.335	20	
m,p-Xylene	0.189	0.00400	"	0.200	ND	94.5	70-130	0.685	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E1036 - EPA 3550B										
Blank (B2E1036-BLK1)					Prepared: 05/10/2022 Analyzed: 05/10/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		77.0	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2E1036 - EPA 3550B

#### LCS (B2E1036-BS1)

Prepared: 05/10/2022 Analyzed: 05/10/2022

Diesel (C10-C28)	989	50.0	mg/kg	1000		98.9	70-130			
Residual Range Organics (C28-C40)	895	200	"	1000		89.5	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.4	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2E1036 - EPA 3550B

Matrix Spike (B2E1036-MS1)		Source: Y205228-01			Prepared: 05/10/2022 Analyzed: 05/10/2022					
Diesel (C10-C28)	954	50.0	mg/kg	1000	ND	95.4	70-130			
Residual Range Organics (C28-C40)	897	200	"	1000	ND	89.7	70-130			
Surrogate: o-Terphenyl	39		"	49.8		78.9	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2E1036 - EPA 3550B

Matrix Spike Dup (B2E1036-MSD1)		Source: Y205228-01			Prepared: 05/10/2022 Analyzed: 05/10/2022					
Diesel (C10-C28)	1060	50.0	mg/kg	1000	ND	106	70-130	10.7	35	
Residual Range Organics (C28-C40)	979	200	"	1000	ND	97.9	70-130	8.73	35	
Surrogate: o-Terphenyl	45		"	49.8		90.2	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## 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 B2E1111 - Default Prep Metals

##### Blank (B2E1111-BLK1)

Prepared: 05/11/2022 Analyzed: 05/12/2022

Boron	ND	0.100	mg/L							U
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##### Duplicate (B2E1111-DUP1)

Source: Y205225-09

Prepared: 05/11/2022 Analyzed: 05/12/2022

Boron	0.890	0.101	mg/L		0.965			8.09	50	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

## Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2E1110 - NO PREP</b>										
<b>Blank (B2E1110-BLK1)</b>					Prepared: 05/11/2022 Analyzed: 05/12/2022					
pH	0.00		pH Units							U
Specific Conductance (EC)	ND	0.0300	mmhos/cm							U
<b>Duplicate (B2E1110-DUP1)</b>					<b>Source: Y205221-09</b>		Prepared: 05/11/2022 Analyzed: 05/12/2022			
pH	8.24		pH Units		8.22			0.243	25	
Specific Conductance (EC)	0.559	0.0300	mmhos/cm		0.538			3.77	25	
<b>Batch B2E1202 - NO PREP</b>										
<b>Blank (B2E1202-BLK1)</b>					Prepared: 05/12/2022 Analyzed: 05/13/2022					
Specific Conductance (EC)	ND	0.0300	mmhos/cm							U
pH	0.00		pH Units							U
<b>Duplicate (B2E1202-DUP1)</b>					<b>Source: Y205228-17</b>		Prepared: 05/12/2022 Analyzed: 05/13/2022			
Specific Conductance (EC)	0.458	0.0300	mmhos/cm		0.504			9.57	25	
pH	8.30		pH Units		8.23			0.847	25	

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Jen Pellegrini, Project Manager

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Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L617027 - 3550B**

MSD (L 91099-MSD-L617027)		Source: 91099			Prepared: 05/19/2022 Analyzed: 05/19/2022					
Benzo(a)pyrene	0.11	0.00234	mg/Kg	0.166	91099	66.2	30-130	1.8	30	
Benzo(k)fluoranthene	0.0751	0.00219	"	0.166	91099	45.2	30-130	8.4	30	
Dibenz(a,h)anthracene	0.0873	0.00307	"	0.166	91099	52.5	30-130	1.9	30	
Fluoranthene	0.107	0.00197	"	0.166	91099	64.4	30-130	1.8	30	
Fluorene	0.0988	0.00143	"	0.166	91099	59.5	30-130	1.4	30	
Pyrene	0.128	0.00322	"	0.166	91099	77.1	30-130	0.7	30	
Naphthalene	0.0833	0.00242	"	0.166	91099	50.1	30-130	6.9	30	
Benzo(b)fluoranthene	0.0684	0.00293	"	0.166	91099	41.2	30-130	23.3	30	
Benzo(a)anthracene	0.104	0.00247	"	0.166	91099	62.6	30-130	0.9	30	
Indeno(1,2,3-cd)pyrene	0.0973	0.00314	"	0.166	91099	58.6	30-130	0.4	30	
Acenaphthene	0.107	0.00152	"	0.166	91099	64.4	30-130	3.8	30	
Anthracene	0.112	0.00167	"	0.166	91099	67.4	30-130	0	30	
1-Methylnaphthalene	0.0857	0.00182	"	0.166	91099	51.6	30-130	4.6	30	
2-Methylnaphthalene	0.0861	0.00323	"	0.166	91099	51.8	30-130	4	30	
Chrysene	0.0953	0.00312	"	0.166	91099	57.4	30-130	4.5	30	
Surrogate: Nitrobenzene-d5	51		"	0.331	175	51	29-110			
Surrogate: 4-Terphenyl-d14	77.3		"	0.331	249	77.3	33-122			
Surrogate: 2-Fluorobiphenyl	54.9		"	0.331	188	54.9	33-115			

MS (L 91099-MS-L617027)		Source: 91099			Prepared: 05/19/2022 Analyzed: 05/19/2022					
Fluoranthene	0.105	0.00197	mg/Kg	0.164	91099	64	30-130			
Pyrene	0.127	0.00322	"	0.164	91099	77.4	30-130			
Naphthalene	0.0777	0.00242	"	0.164	91099	47.3	30-130			
Fluorene	0.0974	0.00143	"	0.164	91099	59.3	30-130			
Anthracene	0.112	0.00167	"	0.164	91099	68.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0969	0.00314	"	0.164	91099	59	30-130			
Acenaphthene	0.103	0.00152	"	0.164	91099	62.8	30-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L617027 - 3550B**

MS (L 91099-MS-L617027)		Source: 91099			Prepared: 05/19/2022 Analyzed: 05/19/2022					
1-Methylnaphthalene	0.0818	0.00182	mg/Kg	0.164	91099	49.8	30-130			
2-Methylnaphthalene	0.0827	0.00323	"	0.164	91099	50.4	30-130			
Benzo(a)anthracene	0.105	0.00247	"	0.164	91099	64	30-130			
Benzo(a)pyrene	0.108	0.00234	"	0.164	91099	65.8	30-130			
Benzo(b)fluoranthene	0.0865	0.00293	"	0.164	91099	52.7	30-130			
Benzo(k)fluoranthene	0.069	0.00219	"	0.164	91099	42	30-130			
Chrysene	0.0997	0.00312	"	0.164	91099	60.7	30-130			
Dibenz(a,h)anthracene	0.0856	0.00307	"	0.164	91099	52.1	30-130			
Surrogate: Nitrobenzene-d5	46.6		"	0.328	175	46.6	29-110			
Surrogate: 2-Fluorobiphenyl	53		"	0.328	188	53	33-115			
Surrogate: 4-Terphenyl-d14	80.7		"	0.328	249	80.7	33-122			

LCS (LCS-L617027)		Prepared: 05/19/2022 Analyzed: 05/19/2022								
Benzo(b)fluoranthene	0.0873	0.000585	mg/Kg	0.167		52.2	30-130			
Naphthalene	0.0878	0.000484	"	0.167		52.5	30-130			
Indeno(1,2,3-cd)pyrene	0.126	0.000627	"	0.167		75.4	30-130			
Fluorene	0.0894	0.000286	"	0.167		53.5	30-130			
Fluoranthene	0.1	0.000394	"	0.167		59.8	30-130			
Dibenz(a,h)anthracene	0.137	0.000614	"	0.167		82	30-130			
Pyrene	0.0961	0.000643	"	0.167		57.5	30-130			
1-Methylnaphthalene	0.0864	0.000364	"	0.167		51.7	30-130			
Chrysene	0.101	0.000624	"	0.167		60.4	30-130			
2-Methylnaphthalene	0.094	0.000645	"	0.167		56.2	30-130			
Anthracene	0.0914	0.000334	"	0.167		54.7	30-130			
Benzo(a)anthracene	0.115	0.000493	"	0.167		68.8	30-130			
Benzo(a)pyrene	0.102	0.000468	"	0.167		61	30-130			
Benzo(k)fluoranthene	0.0949	0.000437	"	0.167		56.8	30-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L617027 - 3550B**

**LCS (LCS-L617027)**

Prepared: 05/19/2022 Analyzed: 05/19/2022

Acenaphthene	0.0897	0.000304	mg/Kg	0.167		53.7	30-130			
Surrogate: Nitrobenzene-d5	60.3		"	0.333		60.3	29-110			
Surrogate: 2-Fluorobiphenyl	56.7		"	0.333		56.7	33-115			
Surrogate: 4-Terphenyl-d14	73.5		"	0.333		73.5	33-122			

**LRB (LRB-L617027)**

Prepared: 05/19/2022 Analyzed: 05/19/2022

Naphthalene	ND	0.00067	mg/Kg				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	61.5		"	0.333		61.5	29-110			
Surrogate: 2-Fluorobiphenyl	59.1		"	0.333		59.1	33-115			
Surrogate: 4-Terphenyl-d14	71.1		"	0.333		71.1	33-122			

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L616411 - 3050B**

MSD (L 91964-MSD-L616411)			Source: 91964			Prepared: 05/16/2022 Analyzed: 05/18/2022				
Nickel	9.77	0.0633	mg/Kg	2.45	7.49	93	75-125	0.1	80	
Barium	95.3	0.171	"	4.9	84.2	227	75-125	4.6	80	*
Cadmium	0.554	0.0259	"	0.49	0.0771	97	75-125	1.8	80	
Lead	9.1	0.031	"	2.45	6.71	98	75-125	1.4	80	
Copper	7.85	0.0806	"	2.45	5.61	91	75-125	0.2	80	
Selenium	2.84	0.103	"	4.9	91964	58	75-125	9.5	80	*
Silver	0.516	0.0067	"	0.49	0.0183	102	75-125	7	80	
Zinc	55.1	0.534	"	24.5	31.3	97	75-125	0.1	80	
Arsenic	1.95	0.0855	"	2.45	0.433	62	75-125	9.6	80	*
MS (L 91964-MS-L616411)			Source: 91964			Prepared: 05/16/2022 Analyzed: 05/18/2022				
Cadmium	0.544	0.0259	mg/Kg	0.475	0.0771	98	75-125			
Zinc	55	0.534	"	23.7	31.3	100	75-125			
Silver	0.481	0.0067	"	0.475	0.0183	97	75-125			
Selenium	2.58	0.103	"	4.75	91964	54	75-125			*
Nickel	9.76	0.0633	"	2.37	7.49	96	75-125			
Copper	7.83	0.0806	"	2.37	5.61	94	75-125			
Barium	99.8	0.171	"	4.75	84.2	329	75-125			*
Arsenic	1.77	0.0855	"	2.37	0.433	56	75-125			*
Lead	8.97	0.031	"	2.37	6.71	95	75-125			
LCS (LCS-L616411)			Prepared: 05/16/2022 Analyzed: 05/18/2022							
Nickel	2.44	0.0633	mg/Kg	2.5		98	80-120			
Arsenic	2.3	0.0855	"	2.5		92	80-120			
Silver	0.482	0.0067	"	0.5		96	80-120			
Zinc	24.8	0.534	"	25		99	80-120			
Selenium	4.7	0.103	"	5		94	80-120			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch L616411 - 3050B

#### LCS (LCS-L616411)

Prepared: 05/16/2022 Analyzed: 05/18/2022

Lead	2.47	0.031	mg/Kg	2.5		99	80-120			
Copper	2.5	0.0806	"	2.5		100	80-120			
Barium	5	0.042	"	5		100	80-120			
Cadmium	0.461	0.0259	"	0.5		92	80-120			

#### LRB (LRB-L616411)

Prepared: 05/16/2022 Analyzed: 05/18/2022

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

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L616080 - 3050B</b>										
<b>MSD (L 91147-MSD-L616080)</b>			<b>Source: 91147</b>		Prepared: 05/13/2022 Analyzed: 05/21/2022					
Cadmium	0.518	0.0259	mg/Kg	0.494	0.0301	99	75-125	0	80	
Zinc	35	0.534	"	24.7	10.5	99	75-125	3.4	80	
Arsenic	2.96	0.0855	"	2.47	0.573	97	75-125	3	80	
Barium	34.9	0.042	"	4.94	27.3	154	75-125	8.3	80	*
Copper	4.39	0.0806	"	2.47	2.11	92	75-125	4.1	80	
Lead	5.13	0.031	"	2.47	2.73	97	75-125	2.7	80	
Nickel	4.3	0.0633	"	2.47	1.95	95	75-125	5.7	80	
Selenium	4.8	0.103	"	4.94	0.255	92	75-125	7.1	80	
Silver	0.494	0.0067	"	0.494	0.00841	98	75-125	2.4	80	
<b>MS (L 91147-MS-L616080)</b>			<b>Source: 91147</b>		Prepared: 05/13/2022 Analyzed: 05/21/2022					
Silver	0.482	0.0067	mg/Kg	0.497	0.00841	95	75-125			
Selenium	4.47	0.103	"	4.97	0.255	85	75-125			
Nickel	4.06	0.0633	"	2.49	1.95	85	75-125			
Lead	4.99	0.031	"	2.49	2.73	91	75-125			
Copper	4.21	0.0806	"	2.49	2.11	85	75-125			
Cadmium	0.518	0.0259	"	0.497	0.0301	98	75-125			
Arsenic	2.87	0.0855	"	2.49	0.573	92	75-125			
Zinc	33.8	0.534	"	24.9	10.5	94	75-125			
Barium	32.1	0.042	"	4.97	27.3	97	75-125			
<b>LCS (LCS-L616080)</b>			Prepared: 05/13/2022 Analyzed: 05/21/2022							
Copper	2.34	0.0806	mg/Kg	2.5		94	80-120			
Selenium	4.68	0.103	"	5		94	80-120			
Silver	0.494	0.0067	"	0.5		99	80-120			
Nickel	2.34	0.0633	"	2.5		94	80-120			
Lead	2.41	0.031	"	2.5		96	80-120			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L616080 - 3050B</b>										
<b>LCS (LCS-L616080)</b>					Prepared: 05/13/2022 Analyzed: 05/21/2022					
Zinc	23.9	0.534	mg/Kg	25		96	80-120			
Barium	5.02	0.042	"	5		100	80-120			
Arsenic	2.4	0.0855	"	2.5		96	80-120			
Cadmium	0.467	0.0259	"	0.5		93	80-120			
<b>LRB (LRB-L616080)</b>					Prepared: 05/13/2022 Analyzed: 05/21/2022					
Arsenic	ND	0.25	mg/Kg				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Barium	0.0918	0.25	"				-			J
Cadmium	ND	0.25	"				-			

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Jen Pellegrini, Project Manager

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Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L617091 -</b>										
<b>DUP (L 91123-DUP)</b>		<b>Source: Y205228-17</b>			Prepared: Analyzed: 05/19/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		91123	-		0	20	
<b>MS (L 91123-MS)</b>		<b>Source: Y205228-17</b>			Prepared: Analyzed: 05/19/2022					
Chromium, Hexavalent	6.41	0.247	mg/Kg	8.11	91123	79	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 05/19/2022					
Chromium, Hexavalent	6.23	0.244	mg/Kg	8		78	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 05/19/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

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Jen Pellegrini, Project Manager

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Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L617090 -</b>										
<b>DUP (L 91102-DUP)</b>		<b>Source: 91102</b>			Prepared: Analyzed: 05/19/2022					
Chromium, Hexavalent	ND	1.22	mg/Kg		91102	-	0	20		
<b>MS (L 91102-MS)</b>		<b>Source: 91102</b>			Prepared: Analyzed: 05/19/2022					
Chromium, Hexavalent	ND	1.23	mg/Kg	8.09	91102	0	75-125			*

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

### Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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May 26, 2022

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

**Project Name - KMG - Zabka 11-15 OSA**

**Project Number - [none]**

Attached are your analytical results for KMG - Zabka 11-15 OSA received by Origins Laboratory, Inc. May 20, 2022. This project is associated with Origins project number Y205540-01.

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

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

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

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

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

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



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



Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST-B07@4'	Y205540-01	Soil	May 20, 2022 12:06	05/20/2022 14:20
AST-N01@3'	Y205540-02	Soil	May 20, 2022 12:07	05/20/2022 14:20
AST-S01@3'	Y205540-03	Soil	May 20, 2022 12:08	05/20/2022 14:20
AST-E01@3'	Y205540-04	Soil	May 20, 2022 12:09	05/20/2022 14:20
AST-W01@3'	Y205540-05	Soil	May 20, 2022 12:10	05/20/2022 14:20

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

# ORIGINS

LABORATORY, INC.

www.originslaboratory.com

Y205SPD

page      of

Client: CX/ITSIHAN

Address: \_\_\_\_\_

Project Manager: Andy Soren

Project Name: \_\_\_\_\_

Project Number: ZOOBA-150A

Samples Collected By: JS

Telephone Number: \_\_\_\_\_

Email Address: LSO@ORIGINS-LAB.COM

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix	Analysis		Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other		Groundwater	Soil	
AST-BU70W1	5/20/22	12:06	2	X				Y			100% water, dry weight
PST-NV10031		12:07							X X X X		all solids, dry weight
AST-S010031		12:08									100% water, dry weight
AST-E010031		12:09									100% water, dry weight
AST-NV10031		12:10	✓	✓				✓			100% water, dry weight
											6
											7
											8
											9
											10

  

Relinquished By: <u>[Signature]</u>	Date: <u>5-20-22</u>	Time: <u>1420</u>	Received By: <u>AS</u>	Date: <u>5/20/22</u>	Time: <u>1420</u>	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>
Relinquished By: <u>[Signature]</u>	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____	

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

Temp Received: 69 Date Results Needed

Origins Laboratory, Inc.

Jeff Pellgrini

Jen Pellegrini, Project Manager

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

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

Origins Laboratory

## Sample Receipt Checklist

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

Origins Work Order: 405510

Client: Tasman

Client Project ID: Zabka 11-15 OSA

Checklist Completed by: JEH

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

Date/time completed: 5/20/22

Airbill #: NA

Matrix(s) Received: (Check all that apply): 1 Soil/Solid Water Other:         

Cooler Number/Temperature: 1 / 69 °C          /          °C          /          °C (Describe)          °C

Thermometer ID: TDX4

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<u>        </u>	<u>        </u>	<u>        </u>	<u>same day</u>
Is there ice present (document if blue ice is used)	<u>        </u>	<u>        </u>	<u>        </u>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<u>        </u>	<u>        </u>	<u>        </u>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<u>        </u>	<u>        </u>	<u>        </u>	
Were all samples received intact <sup>(1)</sup> ?	<u>        </u>	<u>        </u>	<u>        </u>	
Was adequate sample volume provided <sup>(1)</sup> ?	<u>        </u>	<u>        </u>	<u>        </u>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<u>        </u>	<u>        </u>	<u>        </u>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<u>        </u>	<u>        </u>	<u>        </u>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<u>        </u>	<u>        </u>	<u>        </u>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<u>        </u>	<u>        </u>	<u>        </u>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<u>        </u>	<u>        </u>	<u>        </u>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<u>        </u>	<u>        </u>	<u>        </u>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<u>        </u>	<u>        </u>	<u>        </u>	
Additional Comments (if any):				

<sup>(1)</sup>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.

Keel JH  
Reviewed by (Project Manager)

5/20/22  
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

## AST-B07@4'

5/20/2022 12:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y205540-01 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E2011	05/20/2022	05/21/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 84.3 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E2012	05/20/2022	05/21/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 99.0 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 95.5 % 70-130 " " "

### PAH by 8270D SIM

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

AST-B07@4'

5/20/2022 12:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y205540-01 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617845	05/24/2022	05/24/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	61.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	81.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	69.8 %	29-110	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

AST-N01@3'

5/20/2022 12:07:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205540-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E2011	05/20/2022	05/21/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E2012	05/20/2022	05/21/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 101 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 92.1 % 70-130 " " "

**PAH by 8270D SIM**

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

AST-N01@3'

5/20/2022 12:07:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y205540-02 (Soil)**

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617845	05/24/2022	05/24/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	<b>0.000445</b>	<b>0.000394</b>	0.00067	"	"	"	"	"	J
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	64 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	80.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	69.7 %	29-110	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

## AST-S01@3'

5/20/2022 12:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y205540-03 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E2011	05/20/2022	05/21/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E2012	05/20/2022	05/21/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 118 % 70-130 " " "  
Surrogate: Toluene-d8 97.5 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.1 % 70-130 " " "

### PAH by 8270D SIM

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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



Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

AST-S01@3'

5/20/2022 12:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y205540-03 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617845	05/24/2022	05/24/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.000746	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.000927	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	0.000873	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	59.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	77.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	62.2 %	29-110	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

AST-E01@3'

5/20/2022 12:09:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y205540-04 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E2011	05/20/2022	05/21/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 82.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E2012	05/20/2022	05/21/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 92.0 % 70-130 " " "

**PAH by 8270D SIM**

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

AST-E01@3'

5/20/2022 12:09:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y205540-04 (Soil)**

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617845	05/24/2022	05/24/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.000738	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.000952	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00071	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.000803	0.000437	0.00067	"	"	"	"	"
Chrysene	0.000688	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.00105	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	0.00075	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	60.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	75.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	61.3 %	29-110	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

AST-W01@3'

5/20/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y205540-05 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E2011	05/20/2022	05/21/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 77.7 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E2012	05/20/2022	05/21/2022	U
1,3,5-Trimethylbenzene	0.00312	0.00200	"	"	"	"	"	
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 109 % 70-130 " " "  
Surrogate: Toluene-d8 98.3 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.0 % 70-130 " " "

## PAH by 8270D SIM

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

AST-W01@3'

5/20/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y205540-05 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617845	05/24/2022	05/24/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	67.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	87 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	73 %	29-110	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E2011 - EPA 3550B										
Blank (B2E2011-BLK1)					Prepared: 05/20/2022 Analyzed: 05/20/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		86.3	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2E2011 - EPA 3550B

LCS (B2E2011-BS1)

Prepared: 05/20/2022 Analyzed: 05/20/2022

Diesel (C10-C28)	834	50.0	mg/kg	1000		83.4	70-130			
Residual Range Organics (C28-C40)	810	200	"	1000		81.0	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.0	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2E2011 - EPA 3550B**

Matrix Spike (B2E2011-MS1)		Source: Y205527-01			Prepared: 05/20/2022 Analyzed: 05/20/2022					
Diesel (C10-C28)	875	50.0	mg/kg	1000	ND	87.5	70-130			
Residual Range Organics (C28-C40)	853	200	"	1000	ND	85.3	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.5	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2E2011 - EPA 3550B

Matrix Spike Dup (B2E2011-MSD1)		Source: Y205527-01			Prepared: 05/20/2022 Analyzed: 05/20/2022					
Diesel (C10-C28)	903	50.0	mg/kg	1000	ND	90.3	70-130	3.14	35	
Residual Range Organics (C28-C40)	881	200	"	1000	ND	88.1	70-130	3.26	35	
Surrogate: o-Terphenyl	42		"	49.8		84.9	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E2012 - EPA 5030 (soil)										
Blank (B2E2012-BLK1)					Prepared: 05/20/2022 Analyzed: 05/20/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.5	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2E2012 - EPA 5030 (soil)</b>										
<b>LCS (B2E2012-BS1)</b>					Prepared: 05/20/2022 Analyzed: 05/20/2022					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.0998	0.00200	"	0.100		99.8	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.112	0.0100	"	0.100		112	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.210	0.00400	"	0.200		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2E2012 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B2E2012-MS1)</b>		<b>Source: Y205527-01</b>			Prepared: 05/20/2022 Analyzed: 05/20/2022					
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	ND	107	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
Benzene	0.0995	0.00200	"	0.100	ND	99.5	70-130			
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Naphthalene	0.107	0.0100	"	0.100	ND	107	70-130			
Toluene	0.103	0.00200	"	0.100	ND	103	70-130			
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130			
m,p-Xylene	0.222	0.00400	"	0.200	ND	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2E2012 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2E2012-MSD1)</b>		<b>Source: Y205527-01</b>			Prepared: 05/20/2022 Analyzed: 05/20/2022					
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130	2.66	20	
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	4.28	20	
Benzene	0.106	0.00200	"	0.100	ND	106	70-130	6.23	20	
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	1.89	20	
Naphthalene	0.104	0.0100	"	0.100	ND	104	70-130	2.55	20	
Toluene	0.107	0.00200	"	0.100	ND	107	70-130	3.95	20	
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130	2.77	20	
m,p-Xylene	0.219	0.00400	"	0.200	ND	109	70-130	1.54	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L617845 - 3550B**

MSD (L 96233-MSD-L617845)		Source: Y205540-04			Prepared: 05/24/2022 Analyzed: 05/24/2022					
Benzo(a)pyrene	0.106	0.000468	mg/Kg	0.163	0.000952	64.4	30-130	9	30	
1-Methylnaphthalene	0.0912	0.000364	"	0.163	<0.000364	55.9	30-130	23.9	30	
2-Methylnaphthalene	0.0952	0.000645	"	0.163	<0.000645	58.4	30-130	23	30	
Acenaphthene	0.0978	0.000304	"	0.163	<0.000304	60	30-130	0.4	30	
Anthracene	0.0988	0.000334	"	0.163	<0.000334	60.6	30-130	6	30	
Benzo(b)fluoranthene	0.0967	0.000585	"	0.163	0.00071	58.8	30-130	5.3	30	
Pyrene	0.101	0.000643	"	0.163	0.00075	61.5	30-130	5.7	30	
Naphthalene	0.0872	0.000484	"	0.163	<0.000484	53.4	30-130	21.3	30	
Indeno(1,2,3-cd)pyrene	0.135	0.000627	"	0.163	<0.000627	82.8	30-130	8.5	30	
Fluorene	0.11	0.000286	"	0.163	<0.000286	67.4	30-130	3.5	30	
Fluoranthene	0.107	0.000394	"	0.163	0.00105	65	30-130	4.5	30	
Dibenz(a,h)anthracene	0.143	0.000614	"	0.163	<0.000614	87.7	30-130	5.4	30	
Chrysene	0.109	0.000624	"	0.163	0.000688	66.4	30-130	3.6	30	
Benzo(k)fluoranthene	0.103	0.000437	"	0.163	0.000803	62.6	30-130	3.8	30	
Benzo(a)anthracene	0.118	0.000493	"	0.163	0.000738	71.9	30-130	3.3	30	
Surrogate: 2-Fluorobiphenyl	55.6		"	0.327	201	55.6	33-115			
Surrogate: 4-Terphenyl-d14	73.3		"	0.327	251	73.3	33-122			
Surrogate: Nitrobenzene-d5	57.1		"	0.327	203	57.1	29-110			

MS (L 96233-MS-L617845)		Source: Y205540-04			Prepared: 05/24/2022 Analyzed: 05/24/2022					
Benzo(a)pyrene	0.116	0.000468	mg/Kg	0.163	0.000952	70.5	30-130			
Chrysene	0.113	0.000624	"	0.163	0.000688	68.9	30-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L617845 - 3550B**

MS (L 96233-MS-L617845)		Source: Y205540-04			Prepared: 05/24/2022 Analyzed: 05/24/2022					
Pyrene	0.107	0.000643	mg/Kg	0.163	0.00075	65.1	30-130			
Naphthalene	0.108	0.000484	"	0.163	<0.000484	66.2	30-130			
Indeno(1,2,3-cd)pyrene	0.147	0.000627	"	0.163	<0.000627	90.1	30-130			
Fluorene	0.114	0.000286	"	0.163	<0.000286	69.9	30-130			
Fluoranthene	0.112	0.000394	"	0.163	0.00105	68	30-130			
Dibenz(a,h)anthracene	0.151	0.000614	"	0.163	<0.000614	92.6	30-130			
Benzo(b)fluoranthene	0.102	0.000585	"	0.163	0.00071	62.1	30-130			
Benzo(a)anthracene	0.122	0.000493	"	0.163	0.000738	74.3	30-130			
Anthracene	0.105	0.000334	"	0.163	<0.000334	64.4	30-130			
Acenaphthene	0.0982	0.000304	"	0.163	<0.000304	60.2	30-130			
2-Methylnaphthalene	0.12	0.000645	"	0.163	<0.000645	73.6	30-130			
1-Methylnaphthalene	0.116	0.000364	"	0.163	<0.000364	71.1	30-130			
Benzo(k)fluoranthene	0.107	0.000437	"	0.163	0.000803	65.1	30-130			
Surrogate: Nitrobenzene-d5	69.1		"	0.327	203	69.1	29-110			
Surrogate: 2-Fluorobiphenyl	70		"	0.327	201	70	33-115			
Surrogate: 4-Terphenyl-d14	77.9		"	0.327	251	77.9	33-122			

**LCS (LCS-L617845)**

Prepared: 05/24/2022 Analyzed: 05/24/2022

Dibenz(a,h)anthracene	0.149	0.000614	mg/Kg	0.167		89.2	30-130
Fluoranthene	0.111	0.000394	"	0.167		66.4	30-130
Fluorene	0.105	0.000286	"	0.167		62.8	30-130
Indeno(1,2,3-cd)pyrene	0.133	0.000627	"	0.167		79.6	30-130
Naphthalene	0.0915	0.000484	"	0.167		54.7	30-130
Pyrene	0.106	0.000643	"	0.167		63.4	30-130
Chrysene	0.111	0.000624	"	0.167		66.4	30-130
1-Methylnaphthalene	0.0935	0.000364	"	0.167		55.9	30-130
Benzo(b)fluoranthene	0.114	0.000585	"	0.167		68.2	30-130

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L617845 - 3550B**

**LCS (LCS-L617845)**

Prepared: 05/24/2022 Analyzed: 05/24/2022

Benzo(a)pyrene	0.114	0.000468	mg/Kg	0.167		68.2	30-130			
Benzo(a)anthracene	0.125	0.000493	"	0.167		74.8	30-130			
Acenaphthene	0.103	0.000304	"	0.167		61.6	30-130			
2-Methylnaphthalene	0.1	0.000645	"	0.167		59.8	30-130			
Anthracene	0.108	0.000334	"	0.167		64.6	30-130			
Benzo(k)fluoranthene	0.103	0.000437	"	0.167		61.6	30-130			
Surrogate: 4-Terphenyl-d14	83.1		"	0.333		83.1	33-122			
Surrogate: Nitrobenzene-d5	66.9		"	0.333		66.9	29-110			
Surrogate: 2-Fluorobiphenyl	64.8		"	0.333		64.8	33-115			

**LRB (LRB-L617845)**

Prepared: 05/24/2022 Analyzed: 05/24/2022

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	85.8		"	0.333		85.8	33-122			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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



Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L617845 - 3550B

LRB (LRB-L617845)

Prepared: 05/24/2022 Analyzed: 05/24/2022

Surrogate: Nitrobenzene-d5	69		mg/Kg	0.333	69		29-110			
Surrogate: 2-Fluorobiphenyl	63.9		"	0.333	63.9		33-115			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Mike Jahn  
Project Number: [none]  
Project: KMG - Zabka 11-15 OSA

### Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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