



October 19, 2022

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Thompson 25-6

Project Number - [none]

Attached are your analytical results for KMG - Thompson 25-6 received by Origins Laboratory, Inc. September 21, 2022. This project is associated with Origins project number Y209458-01.

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

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	Y209458-01	Soil	September 21, 2022 13:50	09/21/2022 17:40
FL-B01@3'	Y209458-02	Soil	September 21, 2022 13:53	09/21/2022 17:40
WH-BG01@3'	Y209458-03	Soil	September 21, 2022 13:56	09/21/2022 17:40
WH-BG01@6'	Y209458-04	Soil	September 21, 2022 13:59	09/21/2022 17:40
WH-BG02@3'	Y209458-05	Soil	September 21, 2022 14:02	09/21/2022 17:40
WH-BG02@6'	Y209458-06	Soil	September 21, 2022 14:05	09/21/2022 17:40
WH-BG03@3'	Y209458-07	Soil	September 21, 2022 14:08	09/21/2022 17:40
WH-BG03@6'	Y209458-08	Soil	September 21, 2022 14:12	09/21/2022 17:40
WH-BG04@3'	Y209458-09	Soil	September 21, 2022 14:14	09/21/2022 17:40
WH-BG04@6'	Y209458-10	Soil	September 21, 2022 14:17	09/21/2022 17:40

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.*

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

www.originslaboratory.com page 1 of 1

(Initial) 42004537

Client: Eagle Environmental (CSR)  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0479  
Email Address: dcoloccia@eagle-environment.com

Project Manager: D. Coloccia  
Project Name: Thompson 25-6  
Project Number:  
Samples Collected By: MD3

PAH & metals added to WH-B0106-1  
metals added to all BG  
Sample Instructions: Samples per Brandon's email on 9/29/15

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis				Turnaround Time:
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	BTEX	THM's	
WH-B0106-1	9/21/12	1:50	2	X				X		X	X	X	X	24 Hr
FL-B0103-1	9/21/12	1:53								X	X	X	X	48 Hr
WH-B0103-1	9/21/12	1:53								X	X	X	X	Standard
WH-B0106-1	9/21/12	1:51												
WH-B0102-1	9/21/12	2:02												
WH-B0102-1	9/21/12	2:05												
WH-B0103-1	9/21/12	2:08												
WH-B0103-1	9/21/12	2:11												
WH-B0104-1	9/21/12	2:14												
WH-B0104-1	9/21/12	2:17												
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Received By:	Date:	Time:	Relinquished By:	Date:	Time:	Relinquished By:	Date:	Time:
MD3	9/21/12	5:40	MD3	9/21/12	17:40									

Temp Received: 2.14 Date Results Needed

Origins Laboratory, Inc.

*J. Bynon*

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Project Number: [none]  
Project: KMG - Thompson 25-6

Origins Laboratory

Sample Receipt Checklist

Origins Work Order: 4W94588

Checklist Completed by: JSM/PC

Date/time completed: 9/21/22

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

Cooler Number/Temperature: 1 / 2.4 °C 1 °C 1 °C (Describe)

Thermometer ID: T004

Client: Eagle Environmental

Client Project ID: # Thompson 25-6

Shipped Via: FEDEX

Airbill #: N/A

Effective Date: 01/09/12

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> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontraction 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)			<input checked="" type="checkbox"/>	
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.

Reviewed by (Project Manager): [Signature]

Date/Time Reviewed: 09/21/2022

Origins Laboratory, Inc.

[Signature]

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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-B01@6'

9/21/2022 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y209458-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.181	0.0985	mg/L	1	B212202	09/22/2022	09/23/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B212133	09/21/2022	09/22/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.6 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B212130	09/21/2022	09/22/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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WH-B01@6'

9/21/2022 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y209458-01 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	90.8 %		70-130			B2I213 0	09/21/2022	09/22/2022	
Surrogate: Toluene-d8	98.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.9 %		70-130			"	"	"	

## Metals by Saturated Paste by EPA 6010

Calcium	26.7		0.499	meq/L	10	[CALC]	09/22/2022	09/23/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	19.6		0.435	"	"	"	"	"	

## PAH by 8270D SIM

1-Methylnaphthalene	ND	1.82	3.35	µg/Kg	5	L641492	10/05/2022	10/07/2022	
2-Methylnaphthalene	ND	3.23	3.35	"	"	"	"	"	
Acenaphthene	ND	1.52	3.35	"	"	"	"	"	
Anthracene	ND	1.67	3.35	"	"	"	"	"	
Benzo(a)anthracene	ND	2.47	3.35	"	"	"	"	"	
Benzo(a)pyrene	ND	2.34	3.35	"	"	"	"	"	
Benzo(b)fluoranthene	ND	2.93	3.35	"	"	"	"	"	
Benzo(k)fluoranthene	ND	2.19	3.35	"	"	"	"	"	
Chrysene	ND	3.12	3.35	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	3.07	3.35	"	"	"	"	"	

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8000 W 44th Ave  
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Project Number: [none]  
Project: KMG - Thompson 25-6

WH-B01@6'

9/21/2022 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y209458-01 (Soil)

## PAH by 8270D SIM

Fluoranthene	ND	1.97	3.35	µg/Kg	5	L641492	10/05/2022	10/07/2022
Fluorene	ND	1.43	3.35	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	3.14	3.35	"	"	"	"	"
Pyrene	ND	3.22	3.35	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	54.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	82.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47.6 %	29-110	"	"	"

## pH in Soil by 9045D

pH	13.1	pH Units	1	B212211	09/22/2022	09/23/2022
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## SAR by 20B Saturated Paste

SAR	5.37	SAR	1	B212210	09/22/2022	09/23/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	16.7	0.00500	mmhos/cm	1	B212211	09/22/2022	09/23/2022
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## Table 915 metals by EPA 6020B

Arsenic	2.11	0.0951	mg/kg	10	B212920	09/29/2022	10/03/2022
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Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-B01@6'

9/21/2022 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y209458-01 (Soil)

## Table 915 metals by EPA 6020B

Barium	77.5		9.51	mg/kg	10	B212920	09/29/2022	10/03/2022	
Cadmium	0.0961		0.0951	"	"	"	"	"	
Copper	ND		9.51	"	"	"	"	"	
Lead	10.1		9.51	"	"	"	"	"	
Nickel	ND		9.51	"	"	"	"	"	
Selenium	0.0980		0.0951	"	"	"	"	"	
Silver	ND		0.0951	"	"	"	"	"	
Zinc	ND		95.1	"	"	"	"	"	

## Total Metals by 7196A

Chromium, Hexavalent	3.54	0.246	0.505	mg/Kg	1	L641894	09/21/2022	10/07/2022	
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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

FL-B01@3'

9/21/2022 1:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y209458-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.0994	0.0992	mg/L	1	B212202	09/22/2022	09/23/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B212133	09/21/2022	09/22/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.3 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B212130	09/21/2022	09/22/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

FL-B01@3'

9/21/2022 1:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y209458-02 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	90.5 %	70-130	B2I213 0	09/21/2022	09/22/2022
Surrogate: Toluene-d8	96.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.5 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	0.934	0.499	meq/L	10	[CALC]	09/22/2022	09/23/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.53	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.51	pH Units	1	B2I2211	09/22/2022	09/23/2022
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## SAR by 20B Saturated Paste

SAR	1.95	SAR	1	B2I2210	09/22/2022	09/23/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.355	0.00500	mmhos/cm	1	B2I2211	09/22/2022	09/23/2022
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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-BG01@3'

9/21/2022 1:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y209458-03 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.156	0.0990	mg/L	1	B2I2202	09/22/2022	09/23/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	1.82	0.499	meq/L	10	[CALC]	09/22/2022	09/23/2022
Magnesium	0.851	0.823	"	"	"	"	"
Sodium	4.80	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.36		pH Units	1	B2I2211	09/22/2022	09/23/2022
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## SAR by 20B Saturated Paste

SAR	4.15		SAR	1	B2I2210	09/22/2022	09/23/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.692	0.00500	mmhos/cm	1	B2I2211	09/22/2022	09/23/2022
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## Table 915 metals by EPA 6020B

Arsenic	2.62	0.0986	mg/kg	10	B2I2920	09/29/2022	10/03/2022
Barium	66.7	9.86	"	"	"	"	"
Cadmium	ND	0.0986	"	"	"	"	"
Copper	ND	9.86	"	"	"	"	"

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-BG01@3'

9/21/2022 1:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y209458-03 (Soil)

## Table 915 metals by EPA 6020B

Lead	ND		9.86	mg/kg	10	B212920	09/29/2022	10/03/2022	
Nickel	ND		9.86	"	"	"	"	"	
Selenium	ND		0.0986	"	"	"	"	"	
Silver	ND		0.0986	"	"	"	"	"	
Zinc	ND		98.6	"	"	"	"	"	

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L641894	09/21/2022	10/07/2022	
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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-BG01@6'

9/21/2022 1:59:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y209458-04 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.146	0.0985	mg/L	1	B2I2202	09/22/2022	09/23/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	2.14	0.499	meq/L	10	[CALC]	09/22/2022	09/23/2022
Magnesium	1.06	0.823	"	"	"	"	"
Sodium	6.32	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.15		pH Units	1	B2I2211	09/22/2022	09/23/2022
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## SAR by 20B Saturated Paste

SAR	5.00		SAR	1	B2I2210	09/22/2022	09/23/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.912	0.00500	mmhos/cm	1	B2I2211	09/22/2022	09/23/2022
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## Table 915 metals by EPA 6020B

Arsenic	2.60	0.0976	mg/kg	10	B2I2920	09/29/2022	10/03/2022
Barium	61.6	9.76	"	"	"	"	"
Cadmium	0.100	0.0976	"	"	"	"	"
Copper	ND	9.76	"	"	"	"	"

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-BG01@6'

9/21/2022 1:59:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y209458-04 (Soil)

### Table 915 metals by EPA 6020B

Lead	ND	9.76	mg/kg	10	B2I2920	09/29/2022	10/03/2022
Nickel	ND	9.76	"	"	"	"	"
Selenium	ND	0.0976	"	"	"	"	"
Silver	ND	0.0976	"	"	"	"	"
Zinc	ND	97.6	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L641894	09/21/2022	10/07/2022
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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.



Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-BG02@3'

9/21/2022 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y209458-05 (Soil)

## Boron (DTPA Sorbitol)

Boron	ND	0.0998	mg/L	1	B2I2202	09/22/2022	09/23/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	1.59	0.499	meq/L	10	[CALC]	09/23/2022	09/27/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.22	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	7.29		pH Units	1	B2I2308	09/23/2022	09/27/2022
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## SAR by 20B Saturated Paste

SAR	3.00		SAR	1	B2I2302	09/23/2022	09/27/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.643	0.00500	mmhos/cm	1	B2I2308	09/23/2022	09/27/2022
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## Table 915 metals by EPA 6020B

Arsenic	2.23	0.0976	mg/kg	10	B2I2920	09/29/2022	10/03/2022
Barium	60.0	9.76	"	"	"	"	"
Cadmium	0.121	0.0976	"	"	"	"	"
Copper	ND	9.76	"	"	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-BG02@3'

9/21/2022 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y209458-05 (Soil)

### Table 915 metals by EPA 6020B

Lead	10.8		9.76	mg/kg	10	B212920	09/29/2022	10/03/2022	
Nickel	ND		9.76	"	"	"	"	"	
Selenium	ND		0.0976	"	"	"	"	"	
Silver	ND		0.0976	"	"	"	"	"	
Zinc	ND		97.6	"	"	"	"	"	

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L641896	09/21/2022	10/07/2022	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-BG02@6'

9/21/2022 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y209458-06 (Soil)

## Boron (DTPA Sorbitol)

Boron	ND	0.0994	mg/L	1	B2I2202	09/22/2022	09/23/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	3.95	0.499	meq/L	10	[CALC]	09/23/2022	09/27/2022
Magnesium	1.90	0.823	"	"	"	"	"
Sodium	9.24	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	7.32		pH Units	1	B2I2308	09/23/2022	09/27/2022
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## SAR by 20B Saturated Paste

SAR	5.40		SAR	1	B2I2302	09/23/2022	09/27/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.56	0.00500	mmhos/cm	1	B2I2308	09/23/2022	09/27/2022
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## Table 915 metals by EPA 6020B

Arsenic	1.75	0.0988	mg/kg	10	B2I2920	09/29/2022	10/03/2022
Barium	63.3	9.88	"	"	"	"	"
Cadmium	ND	0.0988	"	"	"	"	"
Copper	ND	9.88	"	"	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-BG02@6'

9/21/2022 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y209458-06 (Soil)**

### Table 915 metals by EPA 6020B

Lead	ND		9.88	mg/kg	10	B2I2920	09/29/2022	10/03/2022
Nickel	ND		9.88	"	"	"	"	"
Selenium	ND		0.0988	"	"	"	"	"
Silver	ND		0.0988	"	"	"	"	"
Zinc	ND		98.8	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.508	mg/Kg	1	L641897	09/21/2022	10/07/2022
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-BG03@3'

9/21/2022 2:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y209458-07 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.154	0.0997	mg/L	1	B2I2305	09/23/2022	09/26/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	9.71	0.499	meq/L	10	[CALC]	09/23/2022	09/27/2022
Magnesium	2.87	0.823	"	"	"	"	"
Sodium	8.88	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	7.80		pH Units	1	B2I2308	09/23/2022	09/27/2022
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## SAR by 20B Saturated Paste

SAR	3.54		SAR	1	B2I2302	09/23/2022	09/27/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.03	0.00500	mmhos/cm	1	B2I2308	09/23/2022	09/27/2022
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## Table 915 metals by EPA 6020B

Arsenic	2.72	0.0984	mg/kg	10	B2I2920	09/29/2022	10/03/2022
Barium	76.3	9.84	"	"	"	"	"
Cadmium	0.227	0.0984	"	"	"	"	"
Copper	13.9	9.84	"	"	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-BG03@3'

9/21/2022 2:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y209458-07 (Soil)

## Table 915 metals by EPA 6020B

Lead	15.6	9.84	mg/kg	10	B212920	09/29/2022	10/03/2022
Nickel	ND	9.84	"	"	"	"	"
Selenium	0.212	0.0984	"	"	"	"	"
Silver	0.136	0.0984	"	"	"	"	"
Zinc	ND	98.4	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L641894	09/21/2022	10/07/2022
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-BG03@6'

9/21/2022 2:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y209458-08 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.150	0.0994	mg/L	1	B2I2305	09/23/2022	09/26/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	10.6	0.499	meq/L	10	[CALC]	09/23/2022	09/27/2022
Magnesium	4.24	0.823	"	"	"	"	"
Sodium	5.66	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	7.81		pH Units	1	B2I2308	09/23/2022	09/27/2022
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## SAR by 20B Saturated Paste

SAR	2.08		SAR	1	B2I2302	09/23/2022	09/27/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.81	0.00500	mmhos/cm	1	B2I2308	09/23/2022	09/27/2022
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## Table 915 metals by EPA 6020B

Arsenic	3.03	0.0974	mg/kg	10	B2I2920	09/29/2022	10/03/2022
Barium	75.2	9.74	"	"	"	"	"
Cadmium	0.270	0.0974	"	"	"	"	"
Copper	12.9	9.74	"	"	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-BG03@6'

9/21/2022 2:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y209458-08 (Soil)

### Table 915 metals by EPA 6020B

Lead	21.2	9.74	mg/kg	10	B212920	09/29/2022	10/03/2022
Nickel	ND	9.74	"	"	"	"	"
Selenium	0.306	0.0974	"	"	"	"	"
Silver	0.110	0.0974	"	"	"	"	"
Zinc	ND	97.4	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L641894	09/21/2022	10/07/2022
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-BG04@3'

9/21/2022 2:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y209458-09 (Soil)

## Boron (DTPA Sorbitol)

Boron	ND	0.0987	mg/L	1	B2I2305	09/23/2022	09/26/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	1.58	0.499	meq/L	10	[CALC]	09/23/2022	09/27/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	4.48	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	7.29		pH Units	1	B2I2308	09/23/2022	09/27/2022
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## SAR by 20B Saturated Paste

SAR	4.11		SAR	1	B2I2302	09/23/2022	09/27/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.721	0.00500	mmhos/cm	1	B2I2308	09/23/2022	09/27/2022
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## Table 915 metals by EPA 6020B

Arsenic	2.92	0.0984	mg/kg	10	B2I2920	09/29/2022	10/03/2022
Barium	86.3	9.84	"	"	"	"	"
Cadmium	0.192	0.0984	"	"	"	"	"
Copper	ND	9.84	"	"	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-BG04@3'

9/21/2022 2:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y209458-09 (Soil)

## Table 915 metals by EPA 6020B

Lead	10.1	9.84	mg/kg	10	B212920	09/29/2022	10/03/2022
Nickel	ND	9.84	"	"	"	"	"
Selenium	0.109	0.0984	"	"	"	"	"
Silver	ND	0.0984	"	"	"	"	"
Zinc	ND	98.4	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.502	1.03	mg/Kg	2	L641894	09/21/2022	10/07/2022
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-BG04@6'

9/21/2022 2:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y209458-10 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.220	0.100	mg/L	1	B2I2305	09/23/2022	09/26/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	6.17	0.499	meq/L	10	[CALC]	09/23/2022	09/27/2022
Magnesium	2.93	0.823	"	"	"	"	"
Sodium	11.8	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	7.96		pH Units	1	B2I2308	09/23/2022	09/27/2022
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## SAR by 20B Saturated Paste

SAR	5.53		SAR	1	B2I2302	09/23/2022	09/27/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.00	0.00500	mmhos/cm	1	B2I2308	09/23/2022	09/27/2022
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## Table 915 metals by EPA 6020B

Arsenic	2.53	0.0994	mg/kg	10	B2I2920	09/29/2022	10/03/2022
Barium	62.8	9.94	"	"	"	"	"
Cadmium	ND	0.0994	"	"	"	"	"
Copper	ND	9.94	"	"	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-BG04@6'

9/21/2022 2:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y209458-10 (Soil)

## Table 915 metals by EPA 6020B

Lead	ND	9.94	mg/kg	10	B212920	09/29/2022	10/03/2022
Nickel	ND	9.94	"	"	"	"	"
Selenium	ND	0.0994	"	"	"	"	"
Silver	ND	0.0994	"	"	"	"	"
Zinc	ND	99.4	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L641894	09/21/2022	10/07/2022
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

**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 B2I2130 - EPA 5030 (soil)</b>										
<b>Blank (B2I2130-BLK1)</b>					Prepared: 09/21/2022 Analyzed: 09/21/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.9	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

**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 B2I2130 - EPA 5030 (soil)</b>										
<b>LCS (B2I2130-BS1)</b>					Prepared: 09/21/2022 Analyzed: 09/21/2022					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.0981	0.00200	"	0.100		98.1	70-130			
Ethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Naphthalene	0.0933	0.00380	"	0.100		93.3	70-130			
Toluene	0.0997	0.00200	"	0.100		99.7	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.214	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		80.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

**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 B2I2130 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B2I2130-MS1)</b>		<b>Source: Y209447-41</b>			Prepared: 09/21/2022 Analyzed: 09/21/2022					
1,2,4-Trimethylbenzene	0.0715	0.00200	mg/kg	0.100	ND	71.5	70-130			
1,3,5-Trimethylbenzene	0.0701	0.00200	"	0.100	ND	70.1	70-130			
Benzene	0.0966	0.00200	"	0.100	ND	96.6	70-130			
Ethylbenzene	0.0932	0.00200	"	0.100	ND	93.2	70-130			
Naphthalene	0.0687	0.00380	"	0.100	ND	68.7	70-130			QM-07
Toluene	0.0930	0.00200	"	0.100	ND	93.0	70-130			
o-Xylene	0.0931	0.00200	"	0.100	ND	93.1	70-130			
m,p-Xylene	0.186	0.00400	"	0.200	ND	92.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		83.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

## 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 B2I2130 - EPA 5030 (soil)										
Matrix Spike Dup (B2I2130-MSD1)		Source: Y209447-41			Prepared: 09/21/2022 Analyzed: 09/21/2022					
1,2,4-Trimethylbenzene	0.0599	0.00200	mg/kg	0.100	ND	59.9	70-130	17.5	20	QM-07
1,3,5-Trimethylbenzene	0.0589	0.00200	"	0.100	ND	58.9	70-130	17.4	20	QM-07
Benzene	0.0877	0.00200	"	0.100	ND	87.7	70-130	9.66	20	
Ethylbenzene	0.0769	0.00200	"	0.100	ND	76.9	70-130	19.1	20	
Naphthalene	0.0633	0.00380	"	0.100	ND	63.3	70-130	8.09	20	QM-07
Toluene	0.0807	0.00200	"	0.100	ND	80.7	70-130	14.2	20	
o-Xylene	0.0776	0.00200	"	0.100	ND	77.6	70-130	18.2	20	
m,p-Xylene	0.153	0.00400	"	0.200	ND	76.7	70-130	18.9	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

**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 B2I2133 - EPA 3580</b>										
<b>Blank (B2I2133-BLK1)</b>					Prepared: 09/21/2022 Analyzed: 09/22/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		85.7	50-150			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

**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 B2I2133 - EPA 3580

**LCS (B2I2133-BS1)**

Prepared: 09/21/2022 Analyzed: 09/22/2022

Diesel (C10-C28)	845	50.0	mg/kg	1000		84.5	70-130			
Residual Range Organics (C28-C40)	860	200	"	1000		86.0	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.4	50-150			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

**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 B2I2133 - EPA 3580

Matrix Spike (B2I2133-MS1)		Source: Y209454-01			Prepared: 09/21/2022 Analyzed: 09/22/2022					
Diesel (C10-C28)	836	50.0	mg/kg	1000	ND	83.6	70-130			
Residual Range Organics (C28-C40)	835	200	"	1000	ND	83.5	70-130			
Surrogate: o-Terphenyl	43		"	49.8		87.1	50-150			

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

## 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 B2I2133 - EPA 3580

Matrix Spike Dup (B2I2133-MSD1)		Source: Y209454-01			Prepared: 09/21/2022 Analyzed: 09/22/2022					
Diesel (C10-C28)	864	50.0	mg/kg	1000	ND	86.4	70-130	3.22	35	
Residual Range Organics (C28-C40)	891	200	"	1000	ND	89.1	70-130	6.57	35	
Surrogate: o-Terphenyl	45		"	49.8		90.7	50-150			

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

## 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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### \*\*\* DEFAULT GENERAL METHOD \*\*\* - 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 B2I2920 - Default Prep Metals

##### Blank (B2I2920-BLK1)

Prepared: 09/29/2022 Analyzed: 10/03/2022

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

##### LCS (B2I2920-BS1)

Prepared: 09/29/2022 Analyzed: 10/03/2022

Arsenic	0.0487	0.000100	mg/kg	0.0500	97.5	80-120
Barium	4.91	0.0100	"	5.00	98.1	80-120
Cadmium	0.0508	0.000100	"	0.0500	102	80-120
Copper	0.527	0.0100	"	0.500	105	80-120
Lead	0.0505	0.0100	"	0.0500	101	80-120
Nickel	0.0525	0.0100	"	0.0500	105	80-120
Selenium	0.0458	0.000100	"	0.0500	91.5	80-120
Silver	0.0532	0.000100	"	0.0500	106	80-120
Zinc	0.496	0.100	"	0.500	99.2	80-120

##### Matrix Spike (B2I2920-MS1)

Source: Y209267-01

Prepared: 09/29/2022 Analyzed: 10/03/2022

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

\*\*\* DEFAULT GENERAL METHOD \*\*\* - Quality Control  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2I2920 - Default Prep Metals</b>										
<b>Matrix Spike (B2I2920-MS1)</b>		<b>Source: Y209267-01</b>			Prepared: 09/29/2022 Analyzed: 10/03/2022					
Arsenic	9.08	0.0932	mg/kg	4.66	3.63	117	75-125			
Barium	762	9.32	"	466	304	98.3	75-125			
Cadmium	5.22	0.0932	"	4.66	0.257	106	75-125			
Copper	59.8	9.32	"	46.6	11.9	103	75-125			
Lead	13.1	9.32	"	4.66	16.2	NR	75-125			QM-07
Nickel	13.8	9.32	"	4.66	8.23	119	75-125			
Selenium	4.28	0.0932	"	4.66	0.0916	89.9	75-125			
Silver	5.19	0.0932	"	4.66	0.0111	111	75-125			
Zinc	92.7	93.2	"	46.6	42.4	108	75-125			
<b>Matrix Spike Dup (B2I2920-MSD1)</b>		<b>Source: Y209267-01</b>			Prepared: 09/29/2022 Analyzed: 10/03/2022					
Arsenic	7.65	0.0940	mg/kg	4.70	3.63	85.6	75-125	17.1	20	
Barium	780	9.40	"	470	304	101	75-125	2.37	20	
Cadmium	5.19	0.0940	"	4.70	0.257	105	75-125	0.508	20	
Copper	59.2	9.40	"	47.0	11.9	101	75-125	1.01	20	
Lead	16.8	9.40	"	4.70	16.2	12.4	75-125	24.4	20	QM-07, QR-DUP
Nickel	13.1	9.40	"	4.70	8.23	104	75-125	4.77	20	
Selenium	4.52	0.0940	"	4.70	0.0916	94.1	75-125	5.25	20	
Silver	5.14	0.0940	"	4.70	0.0111	109	75-125	0.917	20	
Zinc	90.1	94.0	"	47.0	42.4	101	75-125	2.84	20	

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

## 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 B2I2202 - Default Prep Metals

#### Blank (B2I2202-BLK1)

Prepared: 09/22/2022 Analyzed: 09/23/2022

Boron ND 0.100 mg/L

#### Duplicate (B2I2202-DUP1)

Source: Y209275-02

Prepared: 09/22/2022 Analyzed: 09/23/2022

Boron 0.179 0.0982 mg/L 0.156 13.6 50

### Batch B2I2210 - Default Prep Metals

#### Blank (B2I2210-BLK1)

Prepared: 09/22/2022 Analyzed: 09/23/2022

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

#### Duplicate (B2I2210-DUP1)

Source: Y209447-44

Prepared: 09/22/2022 Analyzed: 09/23/2022

Calcium PPM 58.2 10.0 mg/L 80.4 32.0 50

SAR 0.00 SAR 12.5 200 200

Magnesium PPM 55.7 10.0 mg/L 73.6 27.7 50

Sodium PPM 579 10.0 " 644 10.7 50

### Batch B2I2302 - Default Prep Metals

#### Blank (B2I2302-BLK1)

Prepared: 09/23/2022 Analyzed: 09/27/2022

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

## 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 B2I2302 - Default Prep Metals

Duplicate (B2I2302-DUP1)		Source: Y209458-05			Prepared: 09/23/2022 Analyzed: 09/27/2022					
SAR	0.00		SAR		3.00			200	200	
Calcium PPM	35.6	10.0	mg/L		32.0			10.7	50	
Magnesium PPM	9.23	10.0	"		8.51			8.08	50	
Sodium PPM	85.2	10.0	"		74.0			14.1	50	

### Batch B2I2305 - Default Prep Metals

Blank (B2I2305-BLK1)					Prepared: 09/23/2022 Analyzed: 09/26/2022					
Boron	ND	0.100	mg/L							
Duplicate (B2I2305-DUP1)		Source: Y209458-07			Prepared: 09/23/2022 Analyzed: 09/26/2022					
Boron	0.177	0.0986	mg/L		0.154			13.9	50	

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

## 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 B2I2211 - NO PREP</b>										
<b>Blank (B2I2211-BLK1)</b>					Prepared: 09/22/2022 Analyzed: 09/23/2022					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
pH	0.00		pH Units							
<b>Duplicate (B2I2211-DUP1)</b>					<b>Source: Y209447-44</b>		Prepared: 09/22/2022 Analyzed: 09/23/2022			
Specific Conductance (EC)	2.68	0.00500	mmhos/cm		2.97			10.3	25	
pH	8.36		pH Units		8.29			0.841	25	
<b>Batch B2I2308 - NO PREP</b>										
<b>Blank (B2I2308-BLK1)</b>					Prepared: 09/23/2022 Analyzed: 09/27/2022					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
pH	0.00		pH Units							
<b>Duplicate (B2I2308-DUP1)</b>					<b>Source: Y209458-05</b>		Prepared: 09/23/2022 Analyzed: 09/27/2022			
pH	6.95		pH Units		7.29			4.78	25	
Specific Conductance (EC)	0.724	0.00500	mmhos/cm		0.643			11.9	25	

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L641492 - 3550B**

**LCSD (LCSD-L641492)**

Prepared: 10/05/2022 Analyzed: 10/07/2022

Benzo(b)fluoranthene	241	0.67	µg/Kg	167		144	30-130	61.9	20	*
Chrysene	220	0.67	"	167		132	30-130	57.3	20	*
Dibenz(a,h)anthracene	271	0.67	"	167		162	30-130	53.2	20	*
Benzo(a)anthracene	226	0.67	"	167		135	30-130	55.3	20	*
Fluoranthene	245	0.67	"	167		147	30-130	57.8	20	*
Fluorene	228	0.67	"	167		137	30-130	62.8	20	*
Indeno(1,2,3-cd)pyrene	262	0.67	"	167		157	30-130	61.3	20	*
Anthracene	219	0.67	"	167		131	30-130	55.3	20	*
Benzo(a)pyrene	252	0.67	"	167		151	30-130	57.1	20	*
Pyrene	235	0.67	"	167		141	30-130	54.7	20	*
2-Methylnaphthalene	183	0.67	"	167		110	30-130	43.1	20	
1-Methylnaphthalene	189	0.67	"	167		113	30-130	44.6	20	
Acenaphthene	204	0.67	"	167		122	30-130	55	20	
Benzo(k)fluoranthene	256	0.67	"	167		153	30-130	71.6	20	*
Surrogate: Nitrobenzene-d5	90.9		"	333		90.9	29-110			
Surrogate: 4-Terphenyl-d14	127		"	333		127	33-122			*
Surrogate: 2-Fluorobiphenyl	104		"	333		104	33-115			

**LCS (LCS-L641492)**

Prepared: 10/05/2022 Analyzed: 10/07/2022

Indeno(1,2,3-cd)pyrene	139	0.67	µg/Kg	167		83.2	30-130			
Benzo(a)anthracene	128	0.67	"	167		76.6	30-130			
Benzo(a)pyrene	140	0.67	"	167		83.8	30-130			
Benzo(b)fluoranthene	127	0.67	"	167		76	30-130			
Chrysene	122	0.67	"	167		73	30-130			
Anthracene	124	0.67	"	167		74.2	30-130			
Fluorene	119	0.67	"	167		71.2	30-130			
Benzo(k)fluoranthene	121	0.67	"	167		72.4	30-130			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch L641492 - 3550B

#### LCS (LCS-L641492)

Prepared: 10/05/2022 Analyzed: 10/07/2022

Pyrene	134	0.67	µg/Kg	167		80.2	30-130			
Fluoranthene	135	0.67	"	167		80.8	30-130			
2-Methylnaphthalene	118	0.67	"	167		70.6	30-130			
1-Methylnaphthalene	120	0.67	"	167		71.8	30-130			
Dibenz(a,h)anthracene	157	0.67	"	167		94	30-130			
Acenaphthene	116	0.67	"	167		69.4	30-130			
Surrogate: Nitrobenzene-d5	60.3		"	333		60.3	29-110			
Surrogate: 4-Terphenyl-d14	77.7		"	333		77.7	33-122			
Surrogate: 2-Fluorobiphenyl	70.2		"	333		70.2	33-115			

#### LRB (LRB-L641492)

Prepared: 10/05/2022 Analyzed: 10/07/2022

Chrysene	ND	0.67	µg/Kg				-			
Anthracene	ND	0.67	"				-			
Benzo(a)anthracene	ND	0.67	"				-			
Benzo(a)pyrene	ND	0.67	"				-			
Acenaphthene	ND	0.67	"				-			
Benzo(k)fluoranthene	ND	0.67	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.67	"				-			
Dibenz(a,h)anthracene	ND	0.67	"				-			
Fluoranthene	ND	0.67	"				-			
Benzo(b)fluoranthene	ND	0.67	"				-			
2-Methylnaphthalene	ND	0.67	"				-			
1-Methylnaphthalene	ND	0.67	"				-			
Pyrene	ND	0.67	"				-			
Fluorene	ND	0.67	"				-			
Surrogate: 4-Terphenyl-d14	76.8		"	333		76.8	33-122			
Surrogate: Nitrobenzene-d5	62.7		"	333		62.7	29-110			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L641492 - 3550B

LRB (LRB-L641492)

Prepared: 10/05/2022 Analyzed: 10/07/2022

Surrogate: 2-Fluorobiphenyl	60.9		µg/Kg	333		60.9	33-115			
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Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L641896 -</b>										
<b>DUP (L 92985-DUP)</b>	<b>Source: Y209458-05</b>				Prepared: Analyzed: 10/07/2022					
Chromium, Hexavalent	ND	1	µg/Kg		<1.00		-	0	20	
<b>MS (L 92985-MS)</b>	<b>Source: Y209458-05</b>				Prepared: Analyzed: 10/07/2022					
Chromium, Hexavalent	34.2	2.51	µg/Kg	40.2	< 0.488	85	75-125			
<b>MSD (L 92985-MSD)</b>	<b>Source: Y209458-05</b>				Prepared: Analyzed: 10/07/2022					
Chromium, Hexavalent	610	52	µg/Kg	676	<25.4	90	75-125			

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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L641897 -</b>										
<b>DUP (L 92986-DUP)</b>		<b>Source: Y209458-06</b>			Prepared: Analyzed: 10/07/2022					
Chromium, Hexavalent	ND	0.514	µg/Kg		<0.514		-	0	20	
<b>MS (L 92986-MS)</b>		<b>Source: Y209458-06</b>			Prepared: Analyzed: 10/07/2022					
Chromium, Hexavalent	37.4	2.51	µg/Kg	40.2	< 0.247	93	75-125			
<b>MSD (L 92986-MSD)</b>		<b>Source: Y209458-06</b>			Prepared: Analyzed: 10/07/2022					
Chromium, Hexavalent	514	51	µg/Kg	663	<24.9	78	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 10/07/2022					
Chromium, Hexavalent	7.58	0.5	µg/Kg	8		95	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 10/07/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L641894 -</b>										
<b>DUP (L 92982-DUP)</b>	<b>Source: Y209458-01</b>				Prepared: Analyzed: 10/07/2022					
Chromium, Hexavalent	0.733	0.5	µg/Kg		3.54		-	131	20	*
<b>MS (L 92982-MS)</b>	<b>Source: Y209458-01</b>				Prepared: Analyzed: 10/07/2022					
Chromium, Hexavalent	42.2	2.5	µg/Kg	40	3.54	97	75-125			
<b>MSD (L 92982-MSD)</b>	<b>Source: Y209458-01</b>				Prepared: Analyzed: 10/07/2022					
Chromium, Hexavalent	577	50	µg/Kg	625	<24.4	92	75-125			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

### Notes and Definitions

U Sample is Non-Detect.

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

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

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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



September 29, 2022

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Thompson 24-6

Project Number - [none]

Attached are your analytical results for KMG - Thompson 24-6 received by Origins Laboratory, Inc. September 22, 2022. This project is associated with Origins project number Y209501-01.

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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 24-6

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B01@5'	Y209501-01	Soil	September 22, 2022 14:08	09/22/2022 17:32
FL-B05@5'	Y209501-02	Soil	September 22, 2022 16:25	09/22/2022 17:32

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President





Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 24-6

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: Y209501

Client: Eagle Environmental

Client Project ID: Thompson 24-6

Checklist Completed by: ENS/DE

Shipped Via: HD

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

Date/time completed: 9/22/22

Airbill #: \_\_\_\_\_

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

Cooler Number/Temperature: 1 12.0°C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: T004

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

Reviewed by (Project Manager)

09/22/2022  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jefe Pellegrini*

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

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 24-6

FL-B01@5'

9/22/2022 2:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y209501-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.0759	0.0993	mg/L	1	B2I2601	KAP	09/26/2022	09/27/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2I2232	ADM	09/22/2022	09/24/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	77.6 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2I2235	JMA	09/22/2022	09/24/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JMA	"	"	U
Benzene	ND	0.00200	"	"	"	JMA	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JMA	"	"	U
Naphthalene	ND	0.00380	"	"	"	JMA	"	"	U
Toluene	ND	0.00200	"	"	"	JMA	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JMA	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JMA	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"
Surrogate: Toluene-d8	94.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	95.9 %	70-130			"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 24-6

FL-B01@5'

9/22/2022 2:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y209501-01 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	0.685	0.499	meq/L	10	[CALC]	KAP	09/26/2022	09/27/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	1.10	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	8.03		pH Units	1	B212606	ACC	09/26/2022	09/27/2022
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**SAR by 20B Saturated Paste**

SAR	1.56		SAR	1	B212605	KAP	09/26/2022	09/27/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.258	0.00500	mmhos/cm	1	B212606	ACC	09/26/2022	09/27/2022
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 24-6

FL-B05@5'

9/22/2022 4:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y209501-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.0907	0.101	mg/L	1	B2I2601	KAP	09/26/2022	09/27/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2I2232	ADM	09/22/2022	09/24/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	63.4 %	50-150			"	"	"		
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2I2235	JMA	09/22/2022	09/24/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JMA	"	"	U
Benzene	ND	0.00200	"	"	"	JMA	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JMA	"	"	U
Naphthalene	ND	0.00380	"	"	"	JMA	"	"	U
Toluene	ND	0.00200	"	"	"	JMA	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JMA	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JMA	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"		
Surrogate: Toluene-d8	96.9 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	93.9 %	70-130			"	"	"		

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 24-6

FL-B05@5'

9/22/2022 4:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y209501-02 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	09/26/2022	09/27/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	1.36	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	7.06		pH Units	1	B2I2606	ACC	09/26/2022	09/27/2022
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**SAR by 20B Saturated Paste**

SAR	2.43		SAR	1	B2I2605	KAP	09/26/2022	09/27/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.241	0.00500	mmhos/cm	1	B2I2606	ACC	09/26/2022	09/27/2022
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Origins Laboratory, Inc.



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8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 24-6

## 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 B2I2232 - EPA 3580										
Blank (B2I2232-BLK1)					Prepared: 09/22/2022 Analyzed: 09/24/2022					
Diesel (C10-C28)	ND	12.5	mg/kg							U
Residual Range Organics (C28-C40)	ND	50.0	"							U
Surrogate: o-Terphenyl	17		"	24.9		67.7	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 24-6

**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 B2I2232 - EPA 3580

**LCS (B2I2232-BS1)**

Prepared: 09/22/2022 Analyzed: 09/24/2022

Diesel (C10-C28)	753	25.0	mg/kg	1000		75.3	70-130			
Residual Range Organics (C28-C40)	846	100	"	1000		84.6	70-130			
Surrogate: o-Terphenyl	34		"	49.8		67.9	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President



Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 24-6

## 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 B2I2232 - EPA 3580

Matrix Spike (B2I2232-MS1)		Source: Y209495-01			Prepared: 09/22/2022 Analyzed: 09/24/2022					
Diesel (C10-C28)	884	25.0	mg/kg	1000	ND	88.4	70-130			
Residual Range Organics (C28-C40)	1000	100	"	1000	ND	100	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.1	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 24-6

## 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 B2I2232 - EPA 3580

Matrix Spike Dup (B2I2232-MSD1)		Source: Y209495-01			Prepared: 09/22/2022 Analyzed: 09/24/2022					
Diesel (C10-C28)	800	25.0	mg/kg	1000	ND	80.0	70-130	10.0	35	
Residual Range Organics (C28-C40)	898	100	"	1000	ND	89.8	70-130	11.1	35	
Surrogate: o-Terphenyl	33		"	49.8		66.1	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 24-6

## 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 B2I2235 - EPA 5030 (soil)										
Blank (B2I2235-BLK1)					Prepared: 09/22/2022 Analyzed: 09/23/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.9	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 24-6

**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 B2I2235 - EPA 5030 (soil)**

**LCS (B2I2235-BS1)**

Prepared: 09/22/2022 Analyzed: 09/23/2022

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.100	0.00200	"	0.100		100	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.116	0.00380	"	0.100		116	70-130			
Toluene	0.0988	0.00200	"	0.100		98.8	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.222	0.00400	"	0.200		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 24-6

**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 B2I2235 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B2I2235-MS1)</b>		<b>Source: Y209483-02</b>			Prepared: 09/22/2022 Analyzed: 09/23/2022					
1,2,4-Trimethylbenzene	0.0754	0.00200	mg/kg	0.100	ND	75.4	70-130			
1,3,5-Trimethylbenzene	0.0757	0.00200	"	0.100	ND	75.7	70-130			
Benzene	0.0907	0.00200	"	0.100	ND	90.7	70-130			
Ethylbenzene	0.0830	0.00200	"	0.100	ND	83.0	70-130			
Naphthalene	0.0799	0.00380	"	0.100	ND	79.9	70-130			
Toluene	0.0849	0.00200	"	0.100	ND	84.9	70-130			
o-Xylene	0.0819	0.00200	"	0.100	ND	81.9	70-130			
m,p-Xylene	0.174	0.00400	"	0.200	ND	86.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 24-6

**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 B2I2235 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2I2235-MSD1)</b>		<b>Source: Y209483-02</b>			Prepared: 09/22/2022 Analyzed: 09/23/2022					
1,2,4-Trimethylbenzene	0.0762	0.00200	mg/kg	0.100	ND	76.2	70-130	1.03	20	
1,3,5-Trimethylbenzene	0.0760	0.00200	"	0.100	ND	76.0	70-130	0.343	20	
Benzene	0.0908	0.00200	"	0.100	ND	90.8	70-130	0.0882	20	
Ethylbenzene	0.0851	0.00200	"	0.100	ND	85.1	70-130	2.43	20	
Naphthalene	0.0840	0.00380	"	0.100	ND	84.0	70-130	5.01	20	
Toluene	0.0854	0.00200	"	0.100	ND	85.4	70-130	0.587	20	
o-Xylene	0.0823	0.00200	"	0.100	ND	82.3	70-130	0.438	20	
m,p-Xylene	0.178	0.00400	"	0.200	ND	89.1	70-130	2.55	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 24-6

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Classical Chemistry Parameters - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B2I2601 - Default Prep Metals

##### Blank (B2I2601-BLK1)

Prepared: 09/26/2022 Analyzed: 09/27/2022

Boron 0.00760 0.100 mg/L

##### Duplicate (B2I2601-DUP1)

Source: Y209490-01

Prepared: 09/26/2022 Analyzed: 09/27/2022

Boron 0.337 0.0993 mg/L 0.304 10.4 50

#### Batch B2I2605 - Default Prep Metals

##### Blank (B2I2605-BLK1)

Prepared: 09/26/2022 Analyzed: 09/27/2022

SAR 0.00 SAR U

Calcium PPM ND 10.0 mg/L U

Magnesium PPM ND 10.0 " U

Sodium PPM 0.866 10.0 "

##### Duplicate (B2I2605-DUP1)

Source: Y209500-01

Prepared: 09/26/2022 Analyzed: 09/27/2022

SAR 0.00 SAR 2.68 200 200 U

Calcium PPM 9.76 10.0 mg/L 9.00 8.05 50

Magnesium PPM 2.23 10.0 " 2.12 5.11 50

Sodium PPM 36.1 10.0 " 34.4 4.86 50

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 24-6

## 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 B2I2606 - NO PREP</b>										
<b>Blank (B2I2606-BLK1)</b>					Prepared: 09/26/2022 Analyzed: 09/27/2022					
pH	0.00		pH Units							U
Specific Conductance (EC)	0.00320	0.00500	mmhos/cm							
<b>Duplicate (B2I2606-DUP1)</b>					<b>Source: Y209500-01</b> Prepared: 09/26/2022 Analyzed: 09/27/2022					
Specific Conductance (EC)	0.378	0.00500	mmhos/cm		0.344			9.34	25	
pH	7.98		pH Units		7.89			1.13	25	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 24-6

### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



September 29, 2022

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Thompson 25-6

Project Number - [none]

Attached are your analytical results for KMG - Thompson 25-6 received by Origins Laboratory, Inc. September 22, 2022. This project is associated with Origins project number Y209505-01.

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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 25-6

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B11@5'	Y209505-01	Soil	September 22, 2022 16:30	09/22/2022 17:35

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 For Noelle Doyle Mathis, President



Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 25-6

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4209505

Client: Eagle

Client Project ID: Thompson 25-6

Checklist Completed by: EHS

Shipped Via: HD

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

Date/time completed: 9/22/22

Airbill #: N/A

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

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 1 120 °C 1 °C 1 °C 1 °C

Thermometer ID: 7004

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

Reviewed by (Project Manager)

Date/Time Reviewed

Origins Laboratory, Inc.

*Jefe Pellegrini*

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

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

FL-B11@5'

9/22/2022 4:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y209505-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.111	0.101	mg/L	1	B2I2601	KAP	09/26/2022	09/27/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2I2232	ADM	09/22/2022	09/24/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	61.9 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2I2235	JMA	09/22/2022	09/24/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JMA	"	"	U
Benzene	ND	0.00200	"	"	"	JMA	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JMA	"	"	U
Naphthalene	ND	0.00380	"	"	"	JMA	"	"	U
Toluene	ND	0.00200	"	"	"	JMA	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JMA	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JMA	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"
Surrogate: Toluene-d8	94.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	95.0 %	70-130			"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

FL-B11@5'

9/22/2022 4:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y209505-01 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	1.34	0.499	meq/L	10	[CALC]	KAP	09/26/2022	09/27/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	1.07	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	8.17		pH Units	1	B2I2606	ACC	09/26/2022	09/27/2022
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**SAR by 20B Saturated Paste**

SAR	1.09		SAR	1	B2I2605	KAP	09/26/2022	09/27/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.334	0.00500	mmhos/cm	1	B2I2606	ACC	09/26/2022	09/27/2022
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 25-6

## 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 B2I2232 - EPA 3580										
Blank (B2I2232-BLK1)					Prepared: 09/22/2022 Analyzed: 09/24/2022					
Diesel (C10-C28)	ND	12.5	mg/kg							U
Residual Range Organics (C28-C40)	ND	50.0	"							U
Surrogate: o-Terphenyl	17		"	24.9		67.7	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 25-6

## 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 B2I2232 - EPA 3580

#### LCS (B2I2232-BS1)

Prepared: 09/22/2022 Analyzed: 09/24/2022

Diesel (C10-C28)	753	25.0	mg/kg	1000		75.3	70-130			
Residual Range Organics (C28-C40)	846	100	"	1000		84.6	70-130			
Surrogate: o-Terphenyl	34		"	49.8		67.9	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

## 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 B2I2232 - EPA 3580

Matrix Spike (B2I2232-MS1)		Source: Y209495-01			Prepared: 09/22/2022 Analyzed: 09/24/2022					
Diesel (C10-C28)	884	25.0	mg/kg	1000	ND	88.4	70-130			
Residual Range Organics (C28-C40)	1000	100	"	1000	ND	100	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.1	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 25-6

## 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 B2I2232 - EPA 3580

Matrix Spike Dup (B2I2232-MSD1)		Source: Y209495-01			Prepared: 09/22/2022 Analyzed: 09/24/2022					
Diesel (C10-C28)	800	25.0	mg/kg	1000	ND	80.0	70-130	10.0	35	
Residual Range Organics (C28-C40)	898	100	"	1000	ND	89.8	70-130	11.1	35	
Surrogate: o-Terphenyl	33		"	49.8		66.1	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

## 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 B2I2235 - EPA 5030 (soil)										
Blank (B2I2235-BLK1)					Prepared: 09/22/2022 Analyzed: 09/23/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.9	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

**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 B2I2235 - EPA 5030 (soil)**

**LCS (B2I2235-BS1)**

Prepared: 09/22/2022 Analyzed: 09/23/2022

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.100	0.00200	"	0.100		100	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.116	0.00380	"	0.100		116	70-130			
Toluene	0.0988	0.00200	"	0.100		98.8	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.222	0.00400	"	0.200		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

**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 B2I2235 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B2I2235-MS1)</b>		<b>Source: Y209483-02</b>			Prepared: 09/22/2022 Analyzed: 09/23/2022					
1,2,4-Trimethylbenzene	0.0754	0.00200	mg/kg	0.100	ND	75.4	70-130			
1,3,5-Trimethylbenzene	0.0757	0.00200	"	0.100	ND	75.7	70-130			
Benzene	0.0907	0.00200	"	0.100	ND	90.7	70-130			
Ethylbenzene	0.0830	0.00200	"	0.100	ND	83.0	70-130			
Naphthalene	0.0799	0.00380	"	0.100	ND	79.9	70-130			
Toluene	0.0849	0.00200	"	0.100	ND	84.9	70-130			
o-Xylene	0.0819	0.00200	"	0.100	ND	81.9	70-130			
m,p-Xylene	0.174	0.00400	"	0.200	ND	86.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

**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 B2I2235 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2I2235-MSD1)</b>		<b>Source: Y209483-02</b>			Prepared: 09/22/2022 Analyzed: 09/23/2022					
1,2,4-Trimethylbenzene	0.0762	0.00200	mg/kg	0.100	ND	76.2	70-130	1.03	20	
1,3,5-Trimethylbenzene	0.0760	0.00200	"	0.100	ND	76.0	70-130	0.343	20	
Benzene	0.0908	0.00200	"	0.100	ND	90.8	70-130	0.0882	20	
Ethylbenzene	0.0851	0.00200	"	0.100	ND	85.1	70-130	2.43	20	
Naphthalene	0.0840	0.00380	"	0.100	ND	84.0	70-130	5.01	20	
Toluene	0.0854	0.00200	"	0.100	ND	85.4	70-130	0.587	20	
o-Xylene	0.0823	0.00200	"	0.100	ND	82.3	70-130	0.438	20	
m,p-Xylene	0.178	0.00400	"	0.200	ND	89.1	70-130	2.55	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Classical Chemistry Parameters - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B2I2601 - Default Prep Metals

##### Blank (B2I2601-BLK1)

Prepared: 09/26/2022 Analyzed: 09/27/2022

Boron	ND	0.100	mg/L							U
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##### Duplicate (B2I2601-DUP1)

Source: Y209490-01

Prepared: 09/26/2022 Analyzed: 09/27/2022

Boron	0.337	0.0993	mg/L		0.304			10.4	50	
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#### Batch B2I2605 - Default Prep Metals

##### Blank (B2I2605-BLK1)

Prepared: 09/26/2022 Analyzed: 09/27/2022

SAR	0.00		SAR							U
-----	------	--	-----	--	--	--	--	--	--	---

Calcium PPM	ND	10.0	mg/L							U
-------------	----	------	------	--	--	--	--	--	--	---

Magnesium PPM	ND	10.0	"							U
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Sodium PPM	ND	10.0	"							U
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##### Duplicate (B2I2605-DUP1)

Source: Y209500-01

Prepared: 09/26/2022 Analyzed: 09/27/2022

SAR	0.00		SAR	2.68			200	200		U
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Calcium PPM	9.76	10.0	mg/L	9.00			8.05	50		U
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Magnesium PPM	2.23	10.0	"	2.12			5.11	50		U
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Sodium PPM	36.1	10.0	"	34.4			4.86	50		
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

## 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 B2I2606 - NO PREP</b>										
<b>Blank (B2I2606-BLK1)</b>					Prepared: 09/26/2022 Analyzed: 09/27/2022					
pH	0.00		pH Units							
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
<b>Duplicate (B2I2606-DUP1)</b>					Source: Y209500-01 Prepared: 09/26/2022 Analyzed: 09/27/2022					
Specific Conductance (EC)	0.378	0.00500	mmhos/cm		0.344			9.34	25	
pH	7.98		pH Units		7.89			1.13	25	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 25-6

### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President



September 29, 2022

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Thompson 33-6A

Project Number - [none]

Attached are your analytical results for KMG - Thompson 33-6A received by Origins Laboratory, Inc. September 22, 2022. This project is associated with Origins project number Y209507-01.

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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 33-6A

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B01@4'	Y209507-01	Soil	September 22, 2022 14:10	09/22/2022 17:35

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 For Noelle Doyle Mathis, President



Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 33-6A

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y209507

Client: Eagle environmental

Client Project ID: Thompson 33-6A

Checklist Completed by: DE

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

Date/time completed: 09/22/2022

Airbill #: NA

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

Cooler Number/Temperature: 1 / 2.0 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C

Thermometer ID: T004

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

Dan Coloccia  
Reviewed by (Project Manager)

09/22/2022  
Date/Time/Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

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

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 33-6A

FL-B01@4'

9/22/2022 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y209507-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.281	0.100	mg/L	1	B2I2602	KAP	09/26/2022	09/27/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2I2312	ADM	09/23/2022	09/24/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	66.1 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2I2236	ADM	09/22/2022	09/24/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ADM	"	"	U
Benzene	ND	0.00200	"	"	"	ADM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ADM	"	"	U
Naphthalene	ND	0.00380	"	"	"	ADM	"	"	U
Toluene	ND	0.00200	"	"	"	ADM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ADM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ADM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	86.2 %	70-130			"	"	"
Surrogate: Toluene-d8	96.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	90.0 %	70-130			"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 33-6A

FL-B01@4'

9/22/2022 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y209507-01 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	1.45	0.499	meq/L	10	[CALC]	KAP	09/26/2022	09/27/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	1.51	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	8.26		pH Units	1	B212606	ACC	09/26/2022	09/27/2022
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**SAR by 20B Saturated Paste**

SAR	1.53		SAR	1	B212605	KAP	09/26/2022	09/27/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.369	0.00500	mmhos/cm	1	B212606	ACC	09/26/2022	09/27/2022
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 33-6A

**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 B2I2236 - EPA 5030 (soil)</b>										
<b>Blank (B2I2236-BLK1)</b>					Prepared: 09/22/2022 Analyzed: 09/24/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		82.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.0	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 33-6A

**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 B2I2236 - EPA 5030 (soil)**

**LCS (B2I2236-BS1)**

Prepared: 09/22/2022 Analyzed: 09/24/2022

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.0997	0.00380	"	0.100		99.7	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.214	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		80.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 33-6A

**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 B2I2236 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B2I2236-MS1)</b>		<b>Source: Y209476-01</b>			Prepared: 09/22/2022 Analyzed: 09/24/2022					
1,2,4-Trimethylbenzene	0.0858	0.00200	mg/kg	0.100	ND	85.8	70-130			
1,3,5-Trimethylbenzene	0.0863	0.00200	"	0.100	ND	86.3	70-130			
Benzene	0.0907	0.00200	"	0.100	ND	90.7	70-130			
Ethylbenzene	0.0930	0.00200	"	0.100	ND	93.0	70-130			
Naphthalene	0.0727	0.00380	"	0.100	0.000900	71.8	70-130			
Toluene	0.0882	0.00200	"	0.100	ND	88.2	70-130			
o-Xylene	0.0910	0.00200	"	0.100	ND	91.0	70-130			
m,p-Xylene	0.186	0.00400	"	0.200	ND	93.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		82.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 33-6A

**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 B2I2236 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2I2236-MSD1)</b>		<b>Source: Y209476-01</b>			Prepared: 09/22/2022 Analyzed: 09/24/2022					
1,2,4-Trimethylbenzene	0.0822	0.00200	mg/kg	0.100	ND	82.2	70-130	4.26	20	
1,3,5-Trimethylbenzene	0.0820	0.00200	"	0.100	ND	82.0	70-130	5.06	20	
Benzene	0.0923	0.00200	"	0.100	ND	92.3	70-130	1.79	20	
Ethylbenzene	0.0882	0.00200	"	0.100	ND	88.2	70-130	5.28	20	
Naphthalene	0.0687	0.00380	"	0.100	0.000900	67.8	70-130	5.54	20	QM-07
Toluene	0.0890	0.00200	"	0.100	ND	89.0	70-130	0.993	20	
o-Xylene	0.0872	0.00200	"	0.100	ND	87.2	70-130	4.26	20	
m,p-Xylene	0.178	0.00400	"	0.200	ND	88.9	70-130	4.60	20	
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		81.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.8	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 33-6A

**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 B2I2312 - EPA 3580

Blank (B2I2312-BLK1)

Prepared: 09/23/2022 Analyzed: 09/28/2022

Diesel (C10-C28)	ND	12.5	mg/kg							U
Residual Range Organics (C28-C40)	ND	50.0	"							U
Surrogate: o-Terphenyl	23		"	24.9		93.5	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 33-6A

## 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 B2I2312 - EPA 3580

#### LCS (B2I2312-BS1)

Prepared: 09/23/2022 Analyzed: 09/28/2022

Diesel (C10-C28)	917	25.0	mg/kg	1000		91.7	70-130			
Residual Range Organics (C28-C40)	816	100	"	1000		81.6	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 33-6A

## 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 B2I2312 - EPA 3580

Matrix Spike (B2I2312-MS1)		Source: Y209489-01			Prepared: 09/23/2022 Analyzed: 09/28/2022					
Diesel (C10-C28)	1400	25.0	mg/kg	1000	682	71.4	70-130			
Residual Range Organics (C28-C40)	731	100	"	1000	181	55.0	70-130			QM-07
Surrogate: o-Terphenyl	44		"	49.8		87.9	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 33-6A

## 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 B2I2312 - EPA 3580

Matrix Spike Dup (B2I2312-MSD1)		Source: Y209489-01			Prepared: 09/23/2022 Analyzed: 09/28/2022					
Diesel (C10-C28)	1410	25.0	mg/kg	1000	682	73.0	70-130	1.16	35	QR-02
Residual Range Organics (C28-C40)	770	100	"	1000	181	59.0	70-130	5.27	35	QR-02
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President



Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 33-6A

## 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 B2I2602 - Default Prep Metals

##### Blank (B2I2602-BLK1)

Prepared: 09/26/2022 Analyzed: 09/27/2022

Boron	ND	0.100	mg/L							U
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##### Duplicate (B2I2602-DUP1)

Source: Y209507-01

Prepared: 09/26/2022 Analyzed: 09/27/2022

Boron	0.207	0.0985	mg/L		0.281			30.7	50	
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#### Batch B2I2605 - Default Prep Metals

##### Blank (B2I2605-BLK1)

Prepared: 09/26/2022 Analyzed: 09/27/2022

Calcium PPM	ND	10.0	mg/L							U
-------------	----	------	------	--	--	--	--	--	--	---

SAR	0.00		SAR							U
-----	------	--	-----	--	--	--	--	--	--	---

Magnesium PPM	ND	10.0	mg/L							U
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Sodium PPM	ND	10.0	"							U
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##### Duplicate (B2I2605-DUP1)

Source: Y209500-01

Prepared: 09/26/2022 Analyzed: 09/27/2022

SAR	0.00		SAR	2.68			200	200		U
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Calcium PPM	9.76	10.0	mg/L	9.00			8.05	50		U
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Magnesium PPM	2.23	10.0	"	2.12			5.11	50		U
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Sodium PPM	36.1	10.0	"	34.4			4.86	50		
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Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 33-6A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2I2606 - NO PREP										
Blank (B2I2606-BLK1)					Prepared: 09/26/2022 Analyzed: 09/27/2022					
pH	0.00		pH Units							U
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B2I2606-DUP1)					Source: Y209500-01 Prepared: 09/26/2022 Analyzed: 09/27/2022					
Specific Conductance (EC)	0.378	0.00500	mmhos/cm		0.344			9.34	25	
pH	7.98		pH Units		7.89			1.13	25	

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Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 33-6A

### Notes and Definitions

U Sample is Non-Detect.

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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October 05, 2022

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - KMG - Thompson 33-6A**

**Project Number - [none]**

Attached are your analytical results for KMG - Thompson 33-6A received by Origins Laboratory, Inc. September 23, 2022. This project is associated with Origins project number Y209541-01.

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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 33-6A

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B08@5'	Y209541-01	Soil	September 23, 2022 14:17	09/23/2022 17:24

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 33-6A

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4209541

Client: Eagle Environmental  
Client Project ID: Thompson 33-6A

Checklist Completed by: TSH/EHS

Shipped Via: 40  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: 119

Date/time completed: 9/23/22

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

Cooler Number/Temperature: 1 / 4.9 °C 1 °C 1 °C (Describe) 1 °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> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <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)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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.

Amelia M. Bynon  
Reviewed by (Project Manager)

9/23/22  
Date/Time Reviewed

Origins Laboratory, Inc.

Bynon

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 33-6A

**FL-B08@5'**  
**9/23/2022 2:17:00PM**

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y209541-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0996	mg/L	1	B2I2602	KAP	09/26/2022	09/27/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2I2313	ADM	09/23/2022	09/25/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	79.6 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2I2236	ADM	09/23/2022	09/24/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ADM	"	"	U
Benzene	ND	0.00200	"	"	"	ADM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ADM	"	"	U
Naphthalene	ND	0.00380	"	"	"	ADM	"	"	U
Toluene	ND	0.00200	"	"	"	ADM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ADM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ADM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.2 %	70-130			"	"	"
Surrogate: Toluene-d8	96.3 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	89.1 %	70-130			"	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 33-6A

FL-B08@5'

9/23/2022 2:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y209541-01 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	0.552	0.499	meq/L	10	[CALC]	KAP	09/26/2022	09/28/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	1.67	0.435	"	"	"	KAP	"	"

## pH in Soil by 9045D

pH	7.04		pH Units	1	B2I2608	ACC	09/26/2022	09/28/2022
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## SAR by 20B Saturated Paste

SAR	2.57		SAR	1	B2I2607	KAP	09/26/2022	09/28/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.306	0.00500	mmhos/cm	1	B2I2608	ACC	09/26/2022	09/28/2022
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8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 33-6A

## 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 B2I2236 - EPA 5030 (soil)

#### Blank (B2I2236-BLK1)

Prepared: 09/22/2022 Analyzed: 09/24/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		82.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.0	70-130			

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 33-6A

**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 B2I2236 - EPA 5030 (soil)**

**LCS (B2I2236-BS1)**

Prepared: 09/22/2022 Analyzed: 09/24/2022

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.0997	0.00380	"	0.100		99.7	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.214	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		80.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2I2236 - EPA 5030 (soil)**

Matrix Spike (B2I2236-MS1)		Source: Y209476-01			Prepared: 09/22/2022 Analyzed: 09/24/2022					
1,2,4-Trimethylbenzene	0.0858	0.00200	mg/kg	0.100	ND	85.8	70-130			
1,3,5-Trimethylbenzene	0.0863	0.00200	"	0.100	ND	86.3	70-130			
Benzene	0.0907	0.00200	"	0.100	ND	90.7	70-130			
Ethylbenzene	0.0930	0.00200	"	0.100	ND	93.0	70-130			
Naphthalene	0.0727	0.00380	"	0.100	0.000900	71.8	70-130			
Toluene	0.0882	0.00200	"	0.100	ND	88.2	70-130			
o-Xylene	0.0910	0.00200	"	0.100	ND	91.0	70-130			
m,p-Xylene	0.186	0.00400	"	0.200	ND	93.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		82.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 33-6A

## 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 B2I2236 - EPA 5030 (soil)										
Matrix Spike Dup (B2I2236-MSD1)		Source: Y209476-01			Prepared: 09/22/2022 Analyzed: 09/24/2022					
1,2,4-Trimethylbenzene	0.0822	0.00200	mg/kg	0.100	ND	82.2	70-130	4.26	20	
1,3,5-Trimethylbenzene	0.0820	0.00200	"	0.100	ND	82.0	70-130	5.06	20	
Benzene	0.0923	0.00200	"	0.100	ND	92.3	70-130	1.79	20	
Ethylbenzene	0.0882	0.00200	"	0.100	ND	88.2	70-130	5.28	20	
Naphthalene	0.0687	0.00380	"	0.100	0.000900	67.8	70-130	5.54	20	QM-07
Toluene	0.0890	0.00200	"	0.100	ND	89.0	70-130	0.993	20	
o-Xylene	0.0872	0.00200	"	0.100	ND	87.2	70-130	4.26	20	
m,p-Xylene	0.178	0.00400	"	0.200	ND	88.9	70-130	4.60	20	
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		81.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.8	70-130			

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8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 33-6A

## 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 B2I2313 - EPA 3580

Blank (B2I2313-BLK1)

Prepared: 09/23/2022 Analyzed: 09/26/2022

Diesel (C10-C28)	ND	12.5	mg/kg							U
Residual Range Organics (C28-C40)	ND	50.0	"							U
Surrogate: o-Terphenyl	22		"	24.9		87.5	50-150			

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8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 33-6A

## 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 B2I2313 - EPA 3580

#### LCS (B2I2313-BS1)

Prepared: 09/23/2022 Analyzed: 09/26/2022

Diesel (C10-C28)	905	25.0	mg/kg	1000		90.5	70-130			
Residual Range Organics (C28-C40)	988	100	"	1000		98.8	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.4	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 33-6A

## 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 B2I2313 - EPA 3580

Matrix Spike (B2I2313-MS1)		Source: Y209540-01			Prepared: 09/23/2022 Analyzed: 09/26/2022					
Diesel (C10-C28)	943	25.0	mg/kg	1000	ND	94.3	70-130			
Residual Range Organics (C28-C40)	1000	100	"	1000	ND	100	70-130			
Surrogate: o-Terphenyl	45		"	49.8		89.6	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 33-6A

## 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 B2I2313 - EPA 3580

Matrix Spike Dup (B2I2313-MSD1)		Source: Y209540-01			Prepared: 09/23/2022 Analyzed: 09/26/2022					
Diesel (C10-C28)	926	25.0	mg/kg	1000	ND	92.6	70-130	1.78	35	
Residual Range Organics (C28-C40)	983	100	"	1000	ND	98.3	70-130	2.07	35	
Surrogate: o-Terphenyl	46		"	49.8		91.5	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 33-6A

## 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch B2I2602 - Default Prep Metals

##### Blank (B2I2602-BLK1)

Prepared: 09/26/2022 Analyzed: 09/27/2022

Boron ND 0.100 mg/L

##### Duplicate (B2I2602-DUP1)

Source: Y209507-01

Prepared: 09/26/2022 Analyzed: 09/27/2022

Boron 0.207 0.0985 mg/L 0.281 30.7 50

#### Batch B2I2607 - Default Prep Metals

##### Blank (B2I2607-BLK1)

Prepared: 09/26/2022 Analyzed: 09/28/2022

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

##### Duplicate (B2I2607-DUP1)

Source: Y209540-07

Prepared: 09/26/2022 Analyzed: 09/28/2022

SAR 0.00 SAR 0.172 200 200

Calcium PPM 20.1 10.0 mg/L 21.6 7.49 50

Magnesium PPM 5.43 10.0 " 5.80 6.55 50

Sodium PPM 3.24 10.0 " 3.49 7.54 50

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 33-6A

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

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

### Batch B2I2608 - NO PREP

#### Blank (B2I2608-BLK1)

Prepared: 09/26/2022 Analyzed: 09/28/2022

pH	0.00		pH Units
Specific Conductance (EC)	ND	0.00500	mmhos/cm

#### Duplicate (B2I2608-DUP1)

Source: Y209540-07

Prepared: 09/26/2022 Analyzed: 09/28/2022

Specific Conductance (EC)	0.169	0.00500	mmhos/cm	0.163	3.62	25
pH	8.10		pH Units	8.14	0.493	25

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 33-6A

### Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



November 17, 2022

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Thompson 25-6

Project Number - [none]

Attached are your analytical results for KMG - Thompson 25-6 received by Origins Laboratory, Inc. November 08, 2022. This project is associated with Origins project number Y211213-01.

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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 25-6

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B02@10'	Y211213-01	Soil	November 8, 2022 11:30	11/08/2022 12:44
WH-N02@6'	Y211213-02	Soil	November 8, 2022 11:33	11/08/2022 12:44
WH-S02@6'	Y211213-03	Soil	November 8, 2022 11:36	11/08/2022 12:44
WH-E02@6'	Y211213-04	Soil	November 8, 2022 11:39	11/08/2022 12:44
WH-W02@6'	Y211213-05	Soil	November 8, 2022 11:42	11/08/2022 12:44

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.*



Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 25-6

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4211213

Client: Eagle

Client Project ID: Thompson 25-6

Checklist Completed by: EHS

Date/time completed: 11/8/22

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

Airbill #: \_\_\_\_\_

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

Cooler Number/Temperature: 1 / 6.2 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T004

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

11/8/22  
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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



Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-B02@10'

11/8/2022 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y211213-01 (Soil)

pH in Soil by 9045D

pH	7.83		pH Units	1	B2K0919	HJD	11/09/2022	11/10/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0893	0.00500	mmhos/cm	"	"	HJD	"	"
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Table 915 metals by EPA 6020B

Arsenic	0.708	0.0926	mg/kg	10	B2K0823	CIH	11/08/2022	11/09/2022
Chromium	ND	9.26	"	"	"	CIH	"	"

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.

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-N02@6'

11/8/2022 11:33:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.  
Y211213-02 (Soil)

pH in Soil by 9045D

pH	7.24		pH Units	1	B2K0919	HJD	11/09/2022	11/10/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.157	0.00500	mmhos/cm	"	"	HJD	"	"
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Table 915 metals by EPA 6020B

Arsenic	0.585	0.0919	mg/kg	10	B2K0823	CIH	11/08/2022	11/09/2022
Chromium	ND	9.19	"	"	"	CIH	"	"

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.

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-S02@6'

11/8/2022 11:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y211213-03 (Soil)

### pH in Soil by 9045D

pH	7.49		pH Units	1	B2K0919	HJD	11/09/2022	11/10/2022
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0819	0.00500	mmhos/cm	"	"	HJD	"	"
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### Table 915 metals by EPA 6020B

Arsenic	0.643	0.0943	mg/kg	10	B2K0823	CIH	11/08/2022	11/09/2022
Chromium	ND	9.43	"	"	"	CIH	"	"

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.

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-E02@6'

11/8/2022 11:39:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.  
Y211213-04 (Soil)

### pH in Soil by 9045D

pH	8.03		pH Units	1	B2K0919	HJD	11/09/2022	11/10/2022
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.134	0.00500	mmhos/cm	"	"	HJD	"	"
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### Table 915 metals by EPA 6020B

Arsenic	0.671	0.0900	mg/kg	10	B2K0823	CIH	11/08/2022	11/09/2022
Chromium	ND	9.00	"	"	"	CIH	"	"

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.

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

WH-W02@6'

11/8/2022 11:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.  
Y211213-05 (Soil)

## pH in Soil by 9045D

pH	7.51		pH Units	1	B2K0919	HJD	11/09/2022	11/10/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0836	0.00500	mmhos/cm	"	"	HJD	"	"
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## Table 915 metals by EPA 6020B

Arsenic	1.18	0.0857	mg/kg	10	B2K0823	CIH	11/08/2022	11/09/2022
Chromium	ND	8.57	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2K0823 - EPA 3050B</b>										
<b>Blank (B2K0823-BLK1)</b>					Prepared: 11/08/2022 Analyzed: 11/09/2022					
Arsenic	ND	0.000100	mg/kg							
Chromium	ND	0.0100	"							
<b>LCS (B2K0823-BS1)</b>					Prepared: 11/08/2022 Analyzed: 11/09/2022					
Arsenic	0.0514	0.000100	mg/kg	0.0500		103	80-120			
Chromium	0.0532	0.0100	"	0.0500		106	80-120			
<b>Matrix Spike (B2K0823-MS1)</b>					<b>Source: Y211213-01</b>		Prepared: 11/08/2022 Analyzed: 11/09/2022			
Arsenic	5.59	0.0898	mg/kg	4.49	0.708	109	75-125			
Chromium	9.51	8.98	"	4.49	3.83	127	75-125			QM-07
<b>Matrix Spike Dup (B2K0823-MSD1)</b>					<b>Source: Y211213-01</b>		Prepared: 11/08/2022 Analyzed: 11/09/2022			
Arsenic	5.70	0.0974	mg/kg	4.87	0.708	103	75-125	2.07	20	
Chromium	8.62	9.74	"	4.87	3.83	98.5	75-125	9.75	20	

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Thompson 25-6

**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 B2K0919 - Saturated Paste pH/EC</b>										
<b>Blank (B2K0919-BLK1)</b>					Prepared: 11/09/2022 Analyzed: 11/10/2022					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B2K0919-DUP1)</b>					<b>Source: Y211213-01</b> Prepared: 11/09/2022 Analyzed: 11/10/2022					
Specific Conductance (EC)	0.0774	0.00500	mmhos/cm		0.0893			14.3	25	
pH	7.70		pH Units		7.83			1.67	25	

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: KMG - Thompson 25-6

### Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



Lab #: 845289 Job #: 52462 IS-107457 Co. Job#:   
 Sample Name: SVP-01@8' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/22/2022 15:30 Date Received: 10/10/2022 Date Reported: 10/24/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.937			
Oxygen -----	20.81			
Nitrogen -----	78.09			
Carbon Dioxide -----	0.14			
Methane -----	0.0146			
Ethane -----	0.0022			
Ethylene -----	nd			
Propane -----	0.0011			
Propylene -----	nd			
Iso-butane -----	0.0002			
N-butane -----	0.0003			
Iso-pentane -----	0.0001			
N-pentane -----	nd			
Hexanes + -----	0.0001			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.000

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 845290 Job #: 52462 IS-107457 Co. Job#:   
 Sample Name: SVP-02@8' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/22/2022 15:41 Date Received: 10/10/2022 Date Reported: 10/24/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.939			
Oxygen -----	20.47			
Nitrogen -----	78.14			
Carbon Dioxide -----	0.39			
Methane -----	0.0502			
Ethane -----	0.0064			
Ethylene -----	nd			
Propane -----	0.0029			
Propylene -----	nd			
Iso-butane -----	0.0006			
N-butane -----	0.0006			
Iso-pentane -----	0.0003			
N-pentane -----	0.0001			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 1

Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 845291 Job #: 52462 IS-107457 Co. Job#:   
 Sample Name: SVP-04@5' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 9/22/2022 15:56 Date Received: 10/10/2022 Date Reported: 10/24/2022

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.916			
Oxygen -----	20.81			
Nitrogen -----	78.08			
Carbon Dioxide -----	0.19			
Methane -----	0.0004			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853064 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-01@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 9:24 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.761			
Oxygen -----	20.45			
Nitrogen -----	78.40			
Carbon Dioxide -----	0.39			
Methane -----	0.0037			
Ethane -----	0.0002			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0001			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853065 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-02@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 9:28 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.768			
Oxygen -----	20.04			
Nitrogen -----	78.44			
Carbon Dioxide -----	0.75			
Methane -----	0.0037			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0001			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853066 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-03@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 9:33 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.766			
Oxygen -----	21.01			
Nitrogen -----	78.02			
Carbon Dioxide -----	0.20			
Methane -----	0.0022			
Ethane -----	0.0006			
Ethylene -----	nd			
Propane -----	0.0004			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	0.0001			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.000

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853067 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-04@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 9:35 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.765			
Oxygen -----	20.99			
Nitrogen -----	78.01			
Carbon Dioxide -----	0.23			
Methane -----	0.0003			
Ethane -----	0.0002			
Ethylene -----	nd			
Propane -----	0.0001			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853068 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-05@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 9:40 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.770			
Oxygen -----	21.06			
Nitrogen -----	77.95			
Carbon Dioxide -----	0.22			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.



Lab #: 853069 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-06@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 9:45 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.759			
Oxygen -----	20.87			
Nitrogen -----	78.07			
Carbon Dioxide -----	0.30			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853070 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-07@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 9:50 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.765			
Oxygen -----	20.57			
Nitrogen -----	78.29			
Carbon Dioxide -----	0.37			
Methane -----	0.0020			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853071 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-08@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 9:55 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.772			
Oxygen -----	20.27			
Nitrogen -----	78.47			
Carbon Dioxide -----	0.48			
Methane -----	0.0039			
Ethane -----	0.0003			
Ethylene -----	nd			
Propane -----	0.0002			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853072 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-09@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 10:00 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.772			
Oxygen -----	20.82			
Nitrogen -----	78.07			
Carbon Dioxide -----	0.34			
Methane -----	0.0005			
Ethane -----	0.0001			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853073 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-10@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 10:05 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.737			
Oxygen -----	20.49			
Nitrogen -----	77.98			
Carbon Dioxide -----	0.79			
Methane -----	0.0003			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.003

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853074 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-11@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 10:10 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.773			
Oxygen -----	20.70			
Nitrogen -----	78.10			
Carbon Dioxide -----	0.43			
Methane -----	0.0004			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853075 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-12@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 10:14 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.767			
Oxygen -----	20.85			
Nitrogen -----	78.13			
Carbon Dioxide -----	0.25			
Methane -----	0.0009			
Ethane -----	0.0002			
Ethylene -----	nd			
Propane -----	0.0001			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.000

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853076 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-13@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 10:19 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.771			
Oxygen -----	20.86			
Nitrogen -----	78.08			
Carbon Dioxide -----	0.29			
Methane -----	0.0003			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.



Lab #: 853077 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-14@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 10:24 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.774			
Oxygen -----	21.20			
Nitrogen -----	77.98			
Carbon Dioxide -----	0.049			
Methane -----	0.0004			
Ethane -----	0.0002			
Ethylene -----	nd			
Propane -----	0.0001			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.000

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853078 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-15@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 10:28 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.768			
Oxygen -----	21.12			
Nitrogen -----	77.93			
Carbon Dioxide -----	0.18			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.000

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853079 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-16@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 10:34 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.767			
Oxygen -----	21.05			
Nitrogen -----	78.00			
Carbon Dioxide -----	0.18			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.000

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853080 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-17@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 10:38 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.763			
Oxygen -----	20.98			
Nitrogen -----	77.94			
Carbon Dioxide -----	0.32			
Methane -----	nd			
Ethane -----	0.0001			
Ethylene -----	nd			
Propane -----	0.0001			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853081 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-18@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 10:42 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.767			
Oxygen -----	20.95			
Nitrogen -----	78.00			
Carbon Dioxide -----	0.28			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853082 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-19@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 10:46 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.759			
Oxygen -----	20.99			
Nitrogen -----	77.92			
Carbon Dioxide -----	0.33			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853083 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-20@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 10:51 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.760			
Oxygen -----	20.69			
Nitrogen -----	77.94			
Carbon Dioxide -----	0.61			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853084 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-21@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 10:55 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.764			
Oxygen -----	20.76			
Nitrogen -----	78.01			
Carbon Dioxide -----	0.47			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0002			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.



Lab #: 853085 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-22@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 11:00 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.765			
Oxygen -----	20.99			
Nitrogen -----	78.01			
Carbon Dioxide -----	0.24			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853086 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-23@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 11:05 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.774			
Oxygen -----	20.37			
Nitrogen -----	78.75			
Carbon Dioxide -----	0.11			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0006			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 0.999

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853087 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-24@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 11:08 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.767			
Oxygen -----	20.90			
Nitrogen -----	77.89			
Carbon Dioxide -----	0.44			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.002

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853088 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-25@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 11:12 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.817			
Oxygen -----	20.93			
Nitrogen -----	78.17			
Carbon Dioxide -----	0.084			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	0.0004			
Propylene -----	nd			
Iso-butane -----	0.0003			
N-butane -----	0.0004			
Iso-pentane -----	0.0002			
N-pentane -----	0.0002			
Hexanes + -----	0.0014			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.000

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853089 Job #: 53115 IS-107457 Co. Job#:   
 Sample Name: SVP-26@12' Co. Lab#:   
 Company: Oxy USA Inc.   
 API/Well:   
 Container: IsoTube®   
 Field/Site Name: Thompson 25-6   
 Location:   
 Formation:   
 Sampling Point:   
 Date Sampled: 12/07/2022 11:17 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.764			
Oxygen -----	21.09			
Nitrogen -----	77.88			
Carbon Dioxide -----	0.27			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Lab #: 853090 Job #: 53115 IS-107457 Co. Job#:  
Sample Name: SVP-27@12' Co. Lab#:  
Company: Oxy USA Inc.  
API/Well:  
Container: IsoTube®  
Field/Site Name: Thompson 25-6  
Location:  
Formation:  
Sampling Point:  
Date Sampled: 12/07/2022 11:21 Date Received: 12/16/2022 Date Reported: 1/09/2023

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.762			
Oxygen -----	21.01			
Nitrogen -----	77.94			
Carbon Dioxide -----	0.29			
Methane -----	nd			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.