



May 30, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - HSR - Perconte 16-23

Project Number - [none]

Attached are your analytical results for KMG - HSR - Perconte 16-23 received by Origins Laboratory, Inc. May 14, 2024. This project is associated with Origins project number Y405438-01.

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



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - HSR - Perconte 16-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B01@4'	Y405438-01	Soil	May 14, 2024 13:34	05/14/2024 16:11

Origins Laboratory, Inc.



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 Project: KMG - HSR - Perconte 16-23

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 1405438

Client: Eagle  
 Client Project ID: Perconte 16-23

Checklist Completed by: EHO

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

Date/time completed: 5/14/12

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

Cooler Number/Temperature: 115 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 1005

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? <b>If yes, contact client and note in narrative.</b>			<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.

EHO  
 Reviewed by (Project Manager)

5/14/12  
 Date/Time Reviewed

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 Project: KMG - HSR - Perconte 16-23

FL-B01@4'

5/14/2024 1:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y405438-01 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.233		0.101	mg/L	1	B4E1511	05/15/2024	05/16/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E1438	05/14/2024	05/15/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	97.5 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E1442	05/14/2024	05/15/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
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5/14/2024 1:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y405438-01 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.1 %		70-130			B4E14 42	05/14/2024	05/15/2024	
Surrogate: 4-Bromofluorobenzene	107 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.22		0.499	meq/L	10	[CALC]	05/15/2024	05/16/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E1440	05/14/2024	05/14/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y405438-01 (Soil)

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4E1440	05/14/2024	05/14/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	109 %		60-130			"	"	"	
Surrogate: Anthracene-d10	95.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	116 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	94.8 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.30			pH Units	1	B4E1517	05/15/2024	05/16/2024	
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**SAR by 20B Saturated Paste**

SAR	0.422		0.0100	SAR	1	B4E1506	05/15/2024	05/16/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.235		0.00500	mmhos/cm	1	B4E1517	05/15/2024	05/16/2024	
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**Table 915 metals by EPA 6020B**

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5/14/2024 1:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y405438-01 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	2.17	0.260	mg/kg	10	B4E1441	05/14/2024	05/15/2024	
Barium	77.4	8.98	"	"	"	"	"	
Cadmium	0.112	0.0898	"	"	"	"	"	
Copper	ND	8.98	"	"	"	"	"	
Lead	9.65	0.898	"	"	"	"	"	
Nickel	8.98	0.898	"	"	"	"	"	
Selenium	ND	0.234	"	"	"	"	"	
Silver	ND	0.0898	"	"	"	"	"	
Zinc	42.3	33.2	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.114	0.285	mg/kg dry	1	2617160	05/25/2024	05/28/2024	U
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**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
<b>Batch B4E1438 - EPA 3550B</b>										
<b>Blank (B4E1438-BLK1)</b>										
					Prepared: 05/14/2024 Analyzed: 05/15/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	25		"	24.9		101	50-150			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4E1438 - EPA 3550B</b>										
<b>LCS (B4E1438-BS1)</b>										
					Prepared: 05/14/2024 Analyzed: 05/15/2024					
Diesel (C10-C28)	899	50.0	mg/kg	1000		89.9	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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**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 B4E1438 - EPA 3550B**

<b>Matrix Spike (B4E1438-MS1)</b>	<b>Source: Y405431-01</b>		<b>Prepared: 05/14/2024 Analyzed: 05/15/2024</b>							
Diesel (C10-C28)	866	50.0	mg/kg	1000	ND	86.6	70-130			
Residual Range Organics (C28-C40)	979	200	"	1000	ND	97.9	70-130			
<i>Surrogate: o-Terphenyl</i>	50		"	49.8		101	50-150			

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**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 B4E1438 - EPA 3550B**

Matrix Spike Dup (B4E1438-MSD1)	Source: Y405431-01				Prepared: 05/14/2024 Analyzed: 05/15/2024					
Diesel (C10-C28)	862	50.0	mg/kg	1000	ND	86.2	70-130	0.371	35	
Residual Range Organics (C28-C40)	958	200	"	1000	ND	95.8	70-130	2.17	35	
Surrogate: o-Terphenyl	50		"	49.8		99.9	50-150			

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**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
<b>Batch B4E1442 - EPA 5030 (soil)</b>										
<b>Blank (B4E1442-BLK1)</b>										
Prepared: 05/14/2024 Analyzed: 05/14/2024										
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	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 B4E1442 - EPA 5030 (soil)

**LCS (B4E1442-BS1)**

Prepared: 05/14/2024 Analyzed: 05/14/2024

1,2,4-Trimethylbenzene	0.117	0.00200	mg/kg	0.100		117	70-130			
1,3,5-Trimethylbenzene	0.117	0.00200	"	0.100		117	70-130			
Benzene	0.112	0.00200	"	0.100		112	70-130			
Ethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Naphthalene	0.125	0.00380	"	0.100		125	70-130			
Toluene	0.112	0.00200	"	0.100		112	70-130			
o-Xylene	0.116	0.00200	"	0.100		116	70-130			
m,p-Xylene	0.225	0.00400	"	0.200		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	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 B4E1442 - EPA 5030 (soil)

Matrix Spike (B4E1442-MS1)	Source: Y405431-01			Prepared: 05/14/2024 Analyzed: 05/14/2024						
1,2,4-Trimethylbenzene	0.0943	0.00200	mg/kg	0.100	ND	94.3	70-130			
1,3,5-Trimethylbenzene	0.0933	0.00200	"	0.100	ND	93.3	70-130			
Benzene	0.0896	0.00200	"	0.100	ND	89.6	70-130			
Ethylbenzene	0.0918	0.00200	"	0.100	ND	91.8	70-130			
Naphthalene	0.0975	0.00380	"	0.100	0.00102	96.5	70-130			
Toluene	0.0871	0.00200	"	0.100	ND	87.1	70-130			
o-Xylene	0.0931	0.00200	"	0.100	ND	93.1	70-130			
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	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 B4E1442 - EPA 5030 (soil)

Matrix Spike Dup (B4E1442-MSD1)	Source: Y405431-01			Prepared: 05/14/2024 Analyzed: 05/14/2024						
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130	7.36	20	
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	7.69	20	
Benzene	0.0973	0.00200	"	0.100	ND	97.3	70-130	8.24	20	
Ethylbenzene	0.0995	0.00200	"	0.100	ND	99.5	70-130	8.11	20	
Naphthalene	0.110	0.00380	"	0.100	0.00102	109	70-130	12.3	20	
Toluene	0.0963	0.00200	"	0.100	ND	96.3	70-130	10.1	20	
o-Xylene	0.100	0.00200	"	0.100	ND	100	70-130	7.21	20	
m,p-Xylene	0.196	0.00400	"	0.200	ND	98.1	70-130	8.07	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	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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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E1441 - EPA 3050B**

**Blank (B4E1441-BLK1)**

Prepared: 05/14/2024 Analyzed: 05/15/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

**LCS (B4E1441-BS1)**

Prepared: 05/14/2024 Analyzed: 05/15/2024

Arsenic	5.41	0.290	mg/kg	5.00	108	80-120
Barium	532	10.0	"	500	106	80-120
Cadmium	5.52	0.100	"	5.00	110	80-120
Copper	51.2	10.0	"	50.0	102	80-120
Lead	5.32	1.00	"	5.00	106	80-120
Nickel	5.38	1.00	"	5.00	108	80-120
Selenium	10.2	0.260	"	9.50	107	80-120
Silver	5.62	0.100	"	5.00	112	80-120
Zinc	53.7	37.0	"	50.0	107	80-120

**Matrix Spike (B4E1441-MS1)**

**Source: Y405437-03**

Prepared: 05/14/2024 Analyzed: 05/15/2024

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E1441 - EPA 3050B**

<b>Matrix Spike (B4E1441-MS1)</b>		<b>Source: Y405437-03</b>			<b>Prepared: 05/14/2024 Analyzed: 05/15/2024</b>					
Arsenic	7.96	0.274	mg/kg	4.73	2.35	119	75-125			
Barium	612	9.46	"	473	64.2	116	75-125			
Cadmium	5.54	0.0946	"	4.73	0.212	113	75-125			
Copper	59.1	9.46	"	47.3	7.61	109	75-125			
Lead	17.0	0.946	"	4.73	10.6	135	75-125			QM-07
Nickel	12.1	0.946	"	4.73	6.00	129	75-125			QM-07
Selenium	9.29	0.246	"	8.99	0.0753	103	75-125			
Silver	5.50	0.0946	"	4.73	0.0601	115	75-125			
Zinc	97.4	35.0	"	47.3	38.6	124	75-125			

<b>Matrix Spike Dup (B4E1441-MSD1)</b>		<b>Source: Y405437-03</b>			<b>Prepared: 05/14/2024 Analyzed: 05/15/2024</b>					
Arsenic	11.2	0.270	mg/kg	4.65	2.35	191	75-125	33.9	20	QM-07, QR-DUP
Barium	580	9.31	"	465	64.2	111	75-125	5.33	20	
Cadmium	5.27	0.0931	"	4.65	0.212	109	75-125	4.99	20	
Copper	56.2	9.31	"	46.5	7.61	104	75-125	5.02	20	
Lead	17.4	0.931	"	4.65	10.6	147	75-125	2.62	20	QM-07
Nickel	11.8	0.931	"	4.65	6.00	124	75-125	2.82	20	
Selenium	9.24	0.242	"	8.84	0.0753	104	75-125	0.568	20	
Silver	5.17	0.0931	"	4.65	0.0601	110	75-125	6.14	20	
Zinc	89.9	34.4	"	46.5	38.6	110	75-125	8.06	20	

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E1440 - EPA 3580**

**Blank (B4E1440-BLK1)**

Prepared: 05/14/2024 Analyzed: 05/14/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua

Surrogate: Fluorene-d10	190		ug/kg	200		97.0	60-130			
Surrogate: Anthracene-d10	180		"	200		91.6	60-130			
Surrogate: Pyrene-d10	220		"	200		110	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		95.6	60-130			

**LCS (B4E1440-BS1)**

Prepared: 05/14/2024 Analyzed: 05/14/2024

1-Methylnaphthalene	0.186	0.002	mg/kg	0.200		93.0	70-130			
2-Methylnaphthalene	0.189	0.002	"	0.200		94.6	70-130			
Acenaphthene	0.187	0.020	"	0.200		93.4	70-130			
Anthracene	0.179	0.020	"	0.200		89.5	70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E1440 - EPA 3580**

**LCS (B4E1440-BS1)**

Prepared: 05/14/2024 Analyzed: 05/14/2024

Benzo (a) anthracene	0.182	0.005	mg/kg	0.200		91.0	70-130			
Benzo (a) pyrene	0.190	0.020	"	0.200		94.8	70-130			
Benzo (b) fluoranthene	0.202	0.020	"	0.200		101	70-130			
Benzo (g,h,i) perylene	0.172	0.020	"	0.200		86.0	70-130			
Benzo (k) fluoranthene	0.184	0.020	"	0.200		92.1	70-130			
Chrysene	0.185	0.020	"	0.200		92.6	70-130			
Dibenz (a,h) anthracene	0.143	0.020	"	0.200		71.7	70-130			
Fluoranthene	0.193	0.020	"	0.200		96.3	70-130			
Fluorene	0.192	0.020	"	0.200		95.9	70-130			
Indeno (1,2,3-cd) pyrene	0.156	0.020	"	0.200		77.9	70-130			
Naphthalene	0.188	0.002	"	0.200		94.2	70-130			
Phenanthrene	0.182	0.020	"	0.200		91.0	70-130			
Pyrene	0.196	0.020	"	0.200		97.8	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	190		"	200		93.6	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.2	60-130			

**Matrix Spike (B4E1440-MS1)**

**Source: Y405435-09**

Prepared: 05/14/2024 Analyzed: 05/14/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	0.001	95.7	70-130			
2-Methylnaphthalene	0.193	0.002	"	0.200	0.0009	96.0	70-130			
Acenaphthene	0.186	0.020	"	0.200	0.0003	93.0	70-130			
Anthracene	0.183	0.020	"	0.200	ND	91.3	70-130			
Benzo (a) anthracene	0.183	0.005	"	0.200	0.0006	91.2	70-130			
Benzo (a) pyrene	0.177	0.020	"	0.200	0.003	87.2	70-130			
Benzo (b) fluoranthene	0.197	0.020	"	0.200	0.001	97.6	70-130			
Benzo (g,h,i) perylene	0.172	0.020	"	0.200	0.007	82.3	70-130			

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E1440 - EPA 3580**

<b>Matrix Spike (B4E1440-MS1)</b>		<b>Source: Y405435-09</b>			Prepared: 05/14/2024 Analyzed: 05/14/2024					
Benzo (k) fluoranthene	0.167	0.020	mg/kg	0.200	0.002	82.6	70-130			
Chrysene	0.190	0.020	"	0.200	0.001	94.5	70-130			
Dibenz (a,h) anthracene	0.154	0.020	"	0.200	0.016	68.6	70-130			QM-07
Fluoranthene	0.188	0.020	"	0.200	ND	93.9	70-130			
Fluorene	0.192	0.020	"	0.200	0.001	95.4	70-130			
Indeno (1,2,3-cd) pyrene	0.161	0.020	"	0.200	0.007	76.7	70-130			
Naphthalene	0.187	0.002	"	0.200	ND	93.5	70-130			
Phenanthrene	0.180	0.020	"	0.200	0.001	89.1	70-130			
Pyrene	0.199	0.020	"	0.200	ND	99.3	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	190		"	200		94.9	60-130			
Surrogate: Pyrene-d10	220		"	200		109	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.0	60-130			

<b>Matrix Spike Dup (B4E1440-MSD1)</b>		<b>Source: Y405435-09</b>			Prepared: 05/14/2024 Analyzed: 05/14/2024					
1-Methylnaphthalene	0.199	0.002	mg/kg	0.200	0.001	98.7	70-130	3.08	20	
2-Methylnaphthalene	0.196	0.002	"	0.200	0.0009	97.5	70-130	1.54	20	
Acenaphthene	0.180	0.020	"	0.200	0.0003	89.7	70-130	3.55	20	
Anthracene	0.168	0.020	"	0.200	ND	83.8	70-130	8.63	20	
Benzo (a) anthracene	0.186	0.005	"	0.200	0.0006	92.6	70-130	1.59	20	
Benzo (a) pyrene	0.191	0.020	"	0.200	0.003	93.9	70-130	7.34	20	
Benzo (b) fluoranthene	0.200	0.020	"	0.200	0.001	99.3	70-130	1.76	20	
Benzo (g,h,i) perylene	0.177	0.020	"	0.200	0.007	85.0	70-130	3.16	20	
Benzo (k) fluoranthene	0.179	0.020	"	0.200	0.002	88.2	70-130	6.53	20	
Chrysene	0.183	0.020	"	0.200	0.001	90.7	70-130	4.11	20	
Dibenz (a,h) anthracene	0.153	0.020	"	0.200	0.016	68.3	70-130	0.485	20	QM-07
Fluoranthene	0.203	0.020	"	0.200	ND	101	70-130	7.62	20	

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E1440 - EPA 3580

Matrix Spike Dup (B4E1440-MSD1)	Source: Y405435-09			Prepared: 05/14/2024 Analyzed: 05/14/2024						
Fluorene	0.180	0.020	mg/kg	0.200	0.001	89.4	70-130	6.40	20	
Indeno (1,2,3-cd) pyrene	0.173	0.020	"	0.200	0.007	82.8	70-130	7.24	20	
Naphthalene	0.189	0.002	"	0.200	ND	94.7	70-130	1.23	20	
Phenanthrene	0.179	0.020	"	0.200	0.001	88.7	70-130	0.433	20	
Pyrene	0.202	0.020	"	0.200	ND	101	70-130	1.46	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.3	60-130			
Surrogate: Anthracene-d10	180		"	200		91.3	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.8	60-130			

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**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 B4E1506 - Saturated Paste Metals**

**Blank (B4E1506-BLK1)**

Prepared: 05/15/2024 Analyzed: 05/16/2024

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

**Duplicate (B4E1506-DUP1)**

Source: Y405438-01

Prepared: 05/15/2024 Analyzed: 05/16/2024

Calcium PPM	24.0	10.0	mg/L		24.4			1.86	50	
SAR	ND	0.0100	SAR		0.422				200	
Magnesium PPM	5.32	10.0	mg/L		5.27			0.944	50	
Sodium PPM	9.33	10.0	"		8.82			5.62	50	

**Batch B4E1511 - DTPA Sorbitol Preparation**

**Blank (B4E1511-BLK1)**

Prepared: 05/15/2024 Analyzed: 05/22/2024

Boron	ND	0.100	mg/L							
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**Duplicate (B4E1511-DUP1)**

Source: Y405437-08

Prepared: 05/15/2024 Analyzed: 05/22/2024

Boron	0.191	0.101	mg/L		0.243			24.3	50	
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 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E1517 - Saturated Paste pH/EC**

**Blank (B4E1517-BLK1)**

Prepared: 05/15/2024 Analyzed: 05/16/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4E1517-DUP1)**

**Source: Y405438-01**

Prepared: 05/15/2024 Analyzed: 05/16/2024

Specific Conductance (EC)	0.233	0.00500	mmhos/cm	0.235	0.684	25
pH	8.24		pH Units	8.30	0.726	25

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**Total Metals by 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2617160 - SW846 3060A</b>										
<b>BLANK (1205744189-BLK)</b>					Prepared: 05/25/2024 Analyzed: 05/28/2024					
Hexavalent Chromium	ND	0.257	mg/kg				-			U
<b>LCS (1205744190-BKS)</b>					Prepared: 05/25/2024 Analyzed: 05/28/2024					
Hexavalent Chromium	3.01	0.316	mg/kg	3.16		95.3	80-120			
<b>DUP (1205744191 D)</b>					Source: Y405438-01 Prepared: 05/25/2024 Analyzed: 05/28/2024					
Hexavalent Chromium	ND	0.285	mg/kg dry		<0.114		0-50	N/A	50	U
<b>MS (1205744192 S)</b>					Source: Y405438-01 Prepared: 05/25/2024 Analyzed: 05/28/2024					
Hexavalent Chromium	2.21	0.285	mg/kg dry	2.85	<0.114	77.2	75-125			
<b>ILCS (1205744193-ILCS)</b>					Prepared: 05/25/2024 Analyzed: 05/28/2024					
Hexavalent Chromium	6.25	0.299	mg/kg	6.23		100	80-120			

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - HSR - Perconte 16-23

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**Notes and Definitions**

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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May 30, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - HSR - Perconte 16-23

Project Number - [none]

Attached are your analytical results for KMG - HSR - Perconte 16-23 received by Origins Laboratory, Inc. May 15, 2024. This project is associated with Origins project number Y405485-01.

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



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - HSR - Perconte 16-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B17@4'	Y405485-01	Soil	May 15, 2024 14:04	05/15/2024 17:00

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y405485 Client: Eagle  
 Client Project ID: Perconte 16-23  
 Checklist Completed by: EAD Shipped Via: HD  
 Date/time completed: 5/15/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 119 °C  °C  °C (Describe)  
 Thermometer ID: 7005

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"/>		SD
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>				
Is a chain-of-custody (COC) present and filled out completely <sup>(1)?</sup>	<input checked="" type="checkbox"/>	<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.

EAD  
 Reviewed by (Project Manager)

5/15/12  
 Date/Time Reviewed

Origins Laboratory, Inc.

*J. Bynon*

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

FL-B17@4'

5/15/2024 2:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y405485-01 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.306		0.0996	mg/L	1	B4E1613	05/16/2024	05/17/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E1537	05/15/2024	05/16/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	103 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E1538	"	05/15/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	101 %		70-130			"	"	"	
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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**FL-B17@4'**

**5/15/2024 2:04:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405485-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.2 %		70-130			B4E15 38	05/15/2024	05/15/2024	
Surrogate: 4-Bromofluorobenzene	109 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.63		0.499	meq/L	10	[CALC]	05/16/2024	05/17/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.77		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E1530	05/15/2024	05/15/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**FL-B17@4'**

**5/15/2024 2:04:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405485-01 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4E1530	05/15/2024	05/15/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	99.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	105 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.52			pH Units	1	B4E1619	05/16/2024	05/17/2024	
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**SAR by 20B Saturated Paste**

SAR	3.45		0.0100	SAR	1	B4E1607	05/16/2024	05/17/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.625		0.00500	mmhos/cm	1	B4E1619	05/16/2024	05/17/2024	
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**Table 915 metals by EPA 6020B**

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 8000 W 44th Ave  
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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

FL-B17@4'

5/15/2024 2:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y405485-01 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	2.08		0.259	mg/kg	10	B4E1540	05/15/2024	05/16/2024	
Barium	56.7		8.92	"	"	"	"	"	
Cadmium	0.114		0.0892	"	"	"	"	"	
Copper	ND		8.92	"	"	"	"	"	
Lead	8.48		0.892	"	"	"	"	"	
Nickel	4.12		0.892	"	"	"	"	"	
Selenium	ND		0.232	"	"	"	"	"	
Silver	ND		0.0892	"	"	"	"	"	
Zinc	ND		33.0	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.166	0.414	mg/kg dry	1	2617733	05/28/2024	05/29/2024	U
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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**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
<b>Batch B4E1537 - EPA 3550B</b>										
<b>Blank (B4E1537-BLK1)</b>										
					Prepared: 05/15/2024 Analyzed: 05/15/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	26		"	24.9		104	50-150			

Origins Laboratory, Inc.



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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**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
<b>Batch B4E1537 - EPA 3550B</b>										
<b>LCS (B4E1537-BS1)</b>										
					Prepared: 05/15/2024 Analyzed: 05/15/2024					
Diesel (C10-C28)	871	50.0	mg/kg	1000		87.1	70-130			
Residual Range Organics (C28-C40)	988	200	"	1000		98.8	70-130			
Surrogate: o-Terphenyl	60		"	49.8		121	50-150			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**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 B4E1537 - EPA 3550B**

<b>Matrix Spike (B4E1537-MS1)</b>	<b>Source: Y405480-02</b>		<b>Prepared: 05/15/2024 Analyzed: 05/15/2024</b>							
Diesel (C10-C28)	864	50.0	mg/kg	1000	ND	86.4	70-130			
Residual Range Organics (C28-C40)	977	200	"	1000	ND	97.7	70-130			
<i>Surrogate: o-Terphenyl</i>	50		"	49.8		100	50-150			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**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 B4E1537 - EPA 3550B**

<b>Matrix Spike Dup (B4E1537-MSD1)</b>	<b>Source: Y405480-02</b>		<b>Prepared: 05/15/2024 Analyzed: 05/15/2024</b>							
Diesel (C10-C28)	897	50.0	mg/kg	1000	ND	89.7	70-130	3.76	35	
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130	2.55	35	
<i>Surrogate: o-Terphenyl</i>	52		"	49.8		104	50-150			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**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 B4E1538 - EPA 5030 (soil)**

**Blank (B4E1538-BLK1)**

Prepared: 05/15/2024 Analyzed: 05/15/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	101		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	100		70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125	110		70-130			

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**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 B4E1538 - EPA 5030 (soil)**

**LCS (B4E1538-BS1)**

Prepared: 05/15/2024 Analyzed: 05/15/2024

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.100	0.00200	"	0.100		100	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.107	0.00380	"	0.100		107	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.201	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**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 B4E1538 - EPA 5030 (soil)**

Matrix Spike (B4E1538-MS1)	Source: Y405480-02			Prepared: 05/15/2024 Analyzed: 05/15/2024						
1,2,4-Trimethylbenzene	0.0788	0.00200	mg/kg	0.100	0.00114	77.6	70-130			
1,3,5-Trimethylbenzene	0.0781	0.00200	"	0.100	ND	78.1	70-130			
Benzene	0.0946	0.00200	"	0.100	0.0402	54.4	70-130			QM-07
Ethylbenzene	0.0779	0.00200	"	0.100	0.00256	75.4	70-130			
Naphthalene	0.0800	0.00380	"	0.100	0.00176	78.2	70-130			
Toluene	0.0721	0.00200	"	0.100	ND	72.1	70-130			
o-Xylene	0.0780	0.00200	"	0.100	ND	78.0	70-130			
m,p-Xylene	0.150	0.00400	"	0.200	0.00100	74.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**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 B4E1538 - EPA 5030 (soil)**

Matrix Spike Dup (B4E1538-MSD1)	Source: Y405480-02			Prepared: 05/15/2024 Analyzed: 05/15/2024						
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	0.00114	99.9	70-130	24.8	20	QR-02
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130	24.8	20	QR-02
Benzene	0.120	0.00200	"	0.100	0.0402	80.0	70-130	23.9	20	QR-02
Ethylbenzene	0.101	0.00200	"	0.100	0.00256	98.9	70-130	26.2	20	QR-02
Naphthalene	0.106	0.00380	"	0.100	0.00176	105	70-130	28.3	20	QR-02
Toluene	0.0935	0.00200	"	0.100	ND	93.5	70-130	25.9	20	QR-02
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130	26.4	20	QR-02
m,p-Xylene	0.197	0.00400	"	0.200	0.00100	97.8	70-130	26.6	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.0	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E1540 - EPA 3050B**

**Blank (B4E1540-BLK1)**

Prepared: 05/15/2024 Analyzed: 05/16/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

**LCS (B4E1540-BS1)**

Prepared: 05/15/2024 Analyzed: 05/16/2024

Arsenic	5.43	0.290	mg/kg	5.00		109	80-120			
Barium	496	10.0	"	500		99.2	80-120			
Cadmium	5.07	0.100	"	5.00		101	80-120			
Copper	52.3	10.0	"	50.0		105	80-120			
Lead	4.94	1.00	"	5.00		98.8	80-120			
Nickel	5.25	1.00	"	5.00		105	80-120			
Selenium	9.88	0.260	"	9.50		104	80-120			
Silver	5.18	0.100	"	5.00		104	80-120			
Zinc	47.8	37.0	"	50.0		95.6	80-120			

**Matrix Spike (B4E1540-MS1)**

Source: Y405485-01

Prepared: 05/15/2024 Analyzed: 05/16/2024

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E1540 - EPA 3050B**

<b>Matrix Spike (B4E1540-MS1)</b>		<b>Source: Y405485-01</b>			<b>Prepared: 05/15/2024 Analyzed: 05/16/2024</b>					
Arsenic	7.44	0.282	mg/kg	4.86	2.08	110	75-125			
Barium	553	9.73	"	486	56.7	102	75-125			
Cadmium	5.10	0.0973	"	4.86	0.114	103	75-125			
Copper	57.5	9.73	"	48.6	7.11	104	75-125			
Lead	12.7	0.973	"	4.86	8.48	87.3	75-125			
Nickel	9.79	0.973	"	4.86	4.12	117	75-125			
Selenium	9.37	0.253	"	9.24	0.172	99.5	75-125			
Silver	5.16	0.0973	"	4.86	0.0401	105	75-125			
Zinc	78.1	36.0	"	48.6	28.2	103	75-125			

<b>Matrix Spike Dup (B4E1540-MSD1)</b>		<b>Source: Y405485-01</b>			<b>Prepared: 05/15/2024 Analyzed: 05/16/2024</b>					
Arsenic	7.77	0.276	mg/kg	4.75	2.08	120	75-125	4.34	20	
Barium	565	9.50	"	475	56.7	107	75-125	2.28	20	
Cadmium	5.14	0.0950	"	4.75	0.114	106	75-125	0.751	20	
Copper	58.3	9.50	"	47.5	7.11	108	75-125	1.45	20	
Lead	15.8	0.950	"	4.75	8.48	155	75-125	21.7	20	QM-07, QR-DUP
Nickel	10.2	0.950	"	4.75	4.12	127	75-125	3.64	20	QM-07
Selenium	9.20	0.247	"	9.03	0.172	100	75-125	1.89	20	
Silver	5.14	0.0950	"	4.75	0.0401	107	75-125	0.368	20	
Zinc	83.7	35.2	"	47.5	28.2	117	75-125	6.91	20	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E1530 - EPA 3580**

**Blank (B4E1530-BLK1)**

Prepared: 05/15/2024 Analyzed: 05/15/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua

Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		99.4	60-130			
Surrogate: Pyrene-d10	200		"	200		98.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.3	60-130			

**LCS (B4E1530-BS1)**

Prepared: 05/15/2024 Analyzed: 05/15/2024

1-Methylnaphthalene	0.179	0.002	mg/kg	0.200		89.4	70-130			
2-Methylnaphthalene	0.178	0.002	"	0.200		89.1	70-130			
Acenaphthene	0.182	0.020	"	0.200		90.8	70-130			
Anthracene	0.178	0.020	"	0.200		89.2	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E1530 - EPA 3580**

**LCS (B4E1530-BS1)**

Prepared: 05/15/2024 Analyzed: 05/15/2024

Benzo (a) anthracene	0.184	0.005	mg/kg	0.200		92.1	70-130			
Benzo (a) pyrene	0.189	0.020	"	0.200		94.7	70-130			
Benzo (b) fluoranthene	0.189	0.020	"	0.200		94.6	70-130			
Benzo (g,h,i) perylene	0.177	0.020	"	0.200		88.6	70-130			
Benzo (k) fluoranthene	0.162	0.020	"	0.200		81.0	70-130			
Chrysene	0.190	0.020	"	0.200		94.8	70-130			
Dibenz (a,h) anthracene	0.197	0.020	"	0.200		98.3	70-130			
Fluoranthene	0.177	0.020	"	0.200		88.4	70-130			
Fluorene	0.183	0.020	"	0.200		91.4	70-130			
Indeno (1,2,3-cd) pyrene	0.183	0.020	"	0.200		91.5	70-130			
Naphthalene	0.180	0.002	"	0.200		90.0	70-130			
Phenanthrene	0.180	0.020	"	0.200		90.1	70-130			
Pyrene	0.186	0.020	"	0.200		93.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		99.1	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.3	60-130			

**Matrix Spike (B4E1530-MS1)**

Source: Y405475-01

Prepared: 05/15/2024 Analyzed: 05/15/2024

1-Methylnaphthalene	0.191	0.002	mg/kg	0.200	0.0007	95.2	70-130			
2-Methylnaphthalene	0.191	0.002	"	0.200	0.002	94.7	70-130			
Acenaphthene	0.193	0.020	"	0.200	ND	96.4	70-130			
Anthracene	0.189	0.020	"	0.200	ND	94.7	70-130			
Benzo (a) anthracene	0.196	0.005	"	0.200	0.0007	97.4	70-130			
Benzo (a) pyrene	0.201	0.020	"	0.200	ND	101	70-130			
Benzo (b) fluoranthene	0.198	0.020	"	0.200	0.001	98.5	70-130			
Benzo (g,h,i) perylene	0.183	0.020	"	0.200	0.0006	91.0	70-130			

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E1530 - EPA 3580**

<b>Matrix Spike (B4E1530-MS1)</b>		<b>Source: Y405475-01</b>			Prepared: 05/15/2024 Analyzed: 05/15/2024					
Benzo (k) fluoranthene	0.194	0.020	mg/kg	0.200	0.0009	96.4	70-130			
Chrysene	0.207	0.020	"	0.200	0.001	103	70-130			
Dibenz (a,h) anthracene	0.200	0.020	"	0.200	ND	99.9	70-130			
Fluoranthene	0.191	0.020	"	0.200	0.0005	95.3	70-130			
Fluorene	0.193	0.020	"	0.200	ND	96.4	70-130			
Indeno (1,2,3-cd) pyrene	0.187	0.020	"	0.200	ND	93.7	70-130			
Naphthalene	0.193	0.002	"	0.200	ND	96.7	70-130			
Phenanthrene	0.195	0.020	"	0.200	0.0009	97.2	70-130			
Pyrene	0.205	0.020	"	0.200	ND	102	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		98.8	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

<b>Matrix Spike Dup (B4E1530-MSD1)</b>		<b>Source: Y405475-01</b>			Prepared: 05/15/2024 Analyzed: 05/15/2024					
1-Methylnaphthalene	0.198	0.002	mg/kg	0.200	0.0007	98.6	70-130	3.43	20	
2-Methylnaphthalene	0.197	0.002	"	0.200	0.002	97.3	70-130	2.74	20	
Acenaphthene	0.199	0.020	"	0.200	ND	99.4	70-130	3.08	20	
Anthracene	0.199	0.020	"	0.200	ND	99.5	70-130	4.94	20	
Benzo (a) anthracene	0.197	0.005	"	0.200	0.0007	98.2	70-130	0.789	20	
Benzo (a) pyrene	0.206	0.020	"	0.200	ND	103	70-130	2.36	20	
Benzo (b) fluoranthene	0.210	0.020	"	0.200	0.001	105	70-130	5.96	20	
Benzo (g,h,i) perylene	0.186	0.020	"	0.200	0.0006	92.9	70-130	2.09	20	
Benzo (k) fluoranthene	0.185	0.020	"	0.200	0.0009	92.0	70-130	4.70	20	
Chrysene	0.205	0.020	"	0.200	0.001	102	70-130	1.14	20	
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	ND	108	70-130	7.72	20	
Fluoranthene	0.189	0.020	"	0.200	0.0005	94.1	70-130	1.32	20	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E1530 - EPA 3580**

<b>Matrix Spike Dup (B4E1530-MSD1)</b>	<b>Source: Y405475-01</b>			<b>Prepared: 05/15/2024 Analyzed: 05/15/2024</b>						
Fluorene	0.197	0.020	mg/kg	0.200	ND	98.5	70-130	2.23	20	
Indeno (1,2,3-cd) pyrene	0.196	0.020	"	0.200	ND	97.8	70-130	4.29	20	
Naphthalene	0.200	0.002	"	0.200	ND	99.9	70-130	3.30	20	
Phenanthrene	0.194	0.020	"	0.200	0.0009	96.5	70-130	0.750	20	
Pyrene	0.205	0.020	"	0.200	ND	103	70-130	0.379	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		99.0	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.0	60-130			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**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 B4E1607 - Saturated Paste Metals**

**Blank (B4E1607-BLK1)**

Prepared: 05/16/2024 Analyzed: 05/17/2024

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

**Duplicate (B4E1607-DUP1)**

Source: Y405405-01

Prepared: 05/16/2024 Analyzed: 05/17/2024

SAR	ND	0.0100	SAR	0.959					200	
Calcium PPM	160	10.0	mg/L	141				12.4	50	
Magnesium PPM	48.9	10.0	"	44.6				9.33	50	
Sodium PPM	51.8	10.0	"	51.0				1.55	50	

**Batch B4E1613 - DTPA Sorbitol Preparation**

**Blank (B4E1613-BLK1)**

Prepared: 05/16/2024 Analyzed: 05/17/2024

Boron	ND	0.100	mg/L							
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**Duplicate (B4E1613-DUP1)**

Source: Y405402-01

Prepared: 05/16/2024 Analyzed: 05/17/2024

Boron	1.12	0.101	mg/L	1.32				16.3	50	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E1619 - Saturated Paste pH/EC**

**Blank (B4E1619-BLK1)**

Prepared: 05/16/2024 Analyzed: 05/17/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4E1619-DUP1)**

**Source: Y405405-01**

Prepared: 05/16/2024 Analyzed: 05/17/2024

Specific Conductance (EC)	1.19	0.00500	mmhos/cm	1.10	8.02	25
pH	8.27		pH Units	8.22	0.606	25

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**Total Metals by 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2617733 - SW846 3060A</b>										
<b>BLANK (1205745526-BLK)</b>					Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	ND	0.343	mg/kg				-			U
<b>LCS (1205745527-BKS)</b>					Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	3.88	0.397	mg/kg	3.97		97.7	80-120			
<b>DUP (1205745528 D)</b>					Source: Y405485-01 Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	ND	0.430	mg/kg dry		<0.172		0-50	N/A	50	U
<b>MS (1205745529 S)</b>					Source: Y405485-01 Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	2.20	0.366	mg/kg dry	3.66	<0.146	57.4	75-125			
<b>DUP (1205745530 D)</b>					Source: 668276002 Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	ND	0.298	mg/kg dry		<0.119		0-50	N/A	50	U
<b>MS (1205745531 S)</b>					Source: 668276002 Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	1.57	0.362	mg/kg dry	3.62	<0.145	42.4	75-125			
<b>ILCS (1205745532-ILCS)</b>					Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	7.08	0.332	mg/kg	6.68		106	80-120			

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - HSR - Perconte 16-23

### Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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July 31, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - HSR - Perconte 16-23

Project Number - [none]

Attached are your analytical results for KMG - HSR - Perconte 16-23 received by Origins Laboratory, Inc. July 05, 2024. This project is associated with Origins project number Y407160-01.

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, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - HSR - Perconte 16-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B19@4'	Y407160-01	Soil	July 5, 2024 11:15	07/05/2024 14:20
FL-B18@4'	Y407160-02	Soil	July 5, 2024 10:30	07/05/2024 14:20

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

# ORIGINS

LABORATORY LLC

ORIGINS WORK ORDER #  
**4407100**

Page 1 of 1

Client: Eagle Environmental (KX) Project Manager: D. Coloccia Key: \_\_\_\_\_  
 Address: 8000 W 44th Ave Project Name: HSR - Perconte 16-23 W= Water  
 Telephone Number: Wheat Ridge, CO 80033 Project Number: \_\_\_\_\_ GW=Groundwater  
 Email Address: 303-433-0479 Collected By: SG SW=Surface Water  
dcoloccia@eagle-environmental.com Invoice/Billing Info: Inv. 16-23 WW=Waste Water  
 L=Liquid  
 S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCl= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis				Comments
						1	2	3	4	
1	FL-B19 @ 4'	7/5/2014	1115	3	UNP	X				
2	FL-B19 @ 4'	7/5/14	1030	3	UNP	X				
3										
4										
5										
6										
7										
8										
9										
10										

Relinquished By: [Signature] Date: 7/5/2014 Time: 1420 Received By: [Signature] Date: 7/5/2014 Time: 1420  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Temp Received-  Received On Ice?   
 Standard  48 Hr  72 Hr  
 SAME DAY  24 Hr  Turnaround Time

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com |

Origins Laboratory, Inc.

*Jefe Pellegrini*

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: H07100 Client: Eagle  
 Client Project ID: HSR-Perconte  
 Checklist Completed by: JEP Shipped Via: TW  
 Date/time completed: 7/5/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid \_\_\_\_\_ Water \_\_\_\_\_ Other: \_\_\_\_\_  
 Cooler Number/Temperature: 116 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe)  
 Thermometer ID: T005

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? <b>If yes, contact client and note in narrative.</b>			<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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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 7/5/24

Origins Laboratory, Inc.

Jefe Pellegrini

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**FL-B19@4'**

**7/5/2024 11:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407160-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0994	mg/L	1	B4G0802	07/08/2024	07/09/2024	Ua
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G0537	07/05/2024	07/05/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	83.6 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G0539	07/05/2024	07/07/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	127 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**FL-B19@4'**

**7/5/2024 11:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407160-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	83.4 %		70-130			B4G05 39	07/05/2024	07/07/2024	
Surrogate: 4-Bromofluorobenzene	97.4 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.21	0.499	meq/L	10	[CALC]		07/08/2024	07/09/2024	
Magnesium	0.907	0.823	"	"	"	"	"	"	
Sodium	4.88	0.435	"	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G0536		07/05/2024	07/05/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC  
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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**FL-B19@4'**

**7/5/2024 11:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407160-01 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4G0536	07/05/2024	07/05/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	104 %		60-130			"	"	"	
Surrogate: Anthracene-d10	90.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	100 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.22			pH Units	1	B4G0808	07/08/2024	07/09/2024	
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**SAR by 20B Saturated Paste**

SAR	4.74		0.0100	SAR	1	B4G0805	07/08/2024	07/09/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.794		0.00500	mmhos/cm	1	B4G0808	07/08/2024	07/09/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

FL-B19@4'

7/5/2024 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y407160-01 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	0.818		0.286	mg/kg	10	B4G0541	07/05/2024	07/06/2024	
Barium	28.8		9.85	"	"	"	"	"	
Cadmium	ND		0.0985	"	"	"	"	"	Ua
Copper	ND		9.85	"	"	"	"	"	Ua
Lead	2.94		0.985	"	"	"	"	"	
Nickel	1.56		0.985	"	"	"	"	"	
Selenium	ND		0.256	"	"	"	"	"	Ua
Silver	ND		0.0985	"	"	"	"	"	Ua
Zinc	ND		36.4	"	"	"	"	"	Ua

**Total Metals 7196A**

Hexavalent Chromium	0.291	0.172	0.430	mg/kg dry	1	2643595	07/29/2024	07/30/2024	J
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Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**FL-B18@4'**

**7/5/2024 10:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407160-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.96		0.0991	mg/L	1	B4G0802	07/08/2024	07/09/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G0537	07/05/2024	07/05/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	76.5 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G0539	07/05/2024	07/07/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	132 %		70-130			"	"	"	S-GC
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Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**FL-B18@4'**

**7/5/2024 10:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407160-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.6 %		70-130			B4G05 39	07/05/2024	07/07/2024	
Surrogate: 4-Bromofluorobenzene	112 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	5.19	0.499	meq/L	10	[CALC]		07/08/2024	07/09/2024	
Magnesium	6.02	0.823	"	"	"		"	"	
Sodium	28.3	0.435	"	"	"		"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G0536		07/05/2024	07/05/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"		"	"	Ua
Acenaphthene	ND	0.020	"	"	"		"	"	Ua
Anthracene	ND	0.020	"	"	"		"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Chrysene	ND	0.020	"	"	"		"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	Ua
Fluoranthene	ND	0.020	"	"	"		"	"	Ua

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**FL-B18@4'**

**7/5/2024 10:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407160-02 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4G0536	07/05/2024	07/05/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	105 %		60-130			"	"	"	
Surrogate: Anthracene-d10	90.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	96.7 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.8 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.36			pH Units	1	B4G0808	07/08/2024	07/09/2024	
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**SAR by 20B Saturated Paste**

SAR	11.9		0.0100	SAR	1	B4G0805	07/08/2024	07/09/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	3.76		0.00500	mmhos/cm	1	B4G0808	07/08/2024	07/09/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

FL-B18@4'

7/5/2024 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y407160-02 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	3.64		0.271	mg/kg	10	B4G0541	07/05/2024	07/06/2024	
Barium	173		9.34	"	"	"	"	"	
Cadmium	0.323		0.0934	"	"	"	"	"	
Copper	16.4		9.34	"	"	"	"	"	
Lead	18.0		0.934	"	"	"	"	"	
Nickel	10.8		0.934	"	"	"	"	"	
Selenium	0.416		0.243	"	"	"	"	"	
Silver	0.106		0.0934	"	"	"	"	"	
Zinc	69.5		34.6	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	0.386	0.196	0.490	mg/kg dry	1	2643595	07/29/2024	07/30/2024	J
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Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC  
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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**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
<b>Batch B4G0537 - EPA 3550B</b>										
<b>Blank (B4G0537-BLK1)</b>										
					Prepared: 07/05/2024 Analyzed: 07/05/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	21		"	24.9		82.6	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**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 B4G0537 - EPA 3550B**

**LCS (B4G0537-BS1)**

Prepared: 07/05/2024 Analyzed: 07/05/2024

Diesel (C10-C28)	893	50.0	mg/kg	1000		89.3	70-130			
Residual Range Organics (C28-C40)	912	200	"	1000		91.2	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.9	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**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 B4G0537 - EPA 3550B**

<b>Matrix Spike (B4G0537-MS1)</b>	<b>Source: Y407063-07</b>			<b>Prepared: 07/05/2024 Analyzed: 07/05/2024</b>						
Diesel (C10-C28)	939	50.0	mg/kg	1000	ND	93.9	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000	82.0	93.9	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.1	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**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
<b>Batch B4G0537 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4G0537-MSD1)</b>		<b>Source: Y407063-07</b>			Prepared: 07/05/2024 Analyzed: 07/05/2024					
Diesel (C10-C28)	989	50.0	mg/kg	1000	ND	98.9	70-130	5.22	35	
Residual Range Organics (C28-C40)	1080	200	"	1000	82.0	99.5	70-130	5.34	35	
Surrogate: o-Terphenyl	49		"	49.8		98.1	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**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 B4G0539 - EPA 5030 (soil)**

**Blank (B4G0539-BLK1)**

Prepared: 07/05/2024 Analyzed: 07/05/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		113	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**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 B4G0539 - EPA 5030 (soil)

**LCS (B4G0539-BS1)**

Prepared: 07/05/2024 Analyzed: 07/05/2024

1,2,4-Trimethylbenzene	0.0913	0.00200	mg/kg	0.100		91.3	70-130			
1,3,5-Trimethylbenzene	0.0920	0.00200	"	0.100		92.0	70-130			
Benzene	0.100	0.00200	"	0.100		100	70-130			
Ethylbenzene	0.0879	0.00200	"	0.100		87.9	70-130			
Naphthalene	0.107	0.00380	"	0.100		107	70-130			
Toluene	0.0915	0.00200	"	0.100		91.5	70-130			
o-Xylene	0.0872	0.00200	"	0.100		87.2	70-130			
m,p-Xylene	0.178	0.00400	"	0.200		89.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**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 B4G0539 - EPA 5030 (soil)

Matrix Spike (B4G0539-MS1)	Source: Y407063-07		Prepared: 07/05/2024 Analyzed: 07/05/2024							
1,2,4-Trimethylbenzene	0.0696	0.00200	mg/kg	0.100	ND	69.6	70-130			QM-07
1,3,5-Trimethylbenzene	0.0666	0.00200	"	0.100	ND	66.6	70-130			QM-07
Benzene	0.0771	0.00200	"	0.100	ND	77.1	70-130			
Ethylbenzene	0.0673	0.00200	"	0.100	ND	67.3	70-130			QM-07
Naphthalene	0.0769	0.00380	"	0.100	ND	76.9	70-130			
Toluene	0.0737	0.00200	"	0.100	ND	73.7	70-130			
o-Xylene	0.0629	0.00200	"	0.100	ND	62.9	70-130			QM-07
m,p-Xylene	0.132	0.00400	"	0.200	ND	66.0	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia  
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 Project: KMG - HSR - Perconte 16-23

**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 B4G0539 - EPA 5030 (soil)

Matrix Spike Dup (B4G0539-MSD1)	Source: Y407063-07			Prepared: 07/05/2024 Analyzed: 07/05/2024						
1,2,4-Trimethylbenzene	0.0702	0.00200	mg/kg	0.100	ND	70.2	70-130	0.772	20	
1,3,5-Trimethylbenzene	0.0677	0.00200	"	0.100	ND	67.7	70-130	1.67	20	QM-07
Benzene	0.0815	0.00200	"	0.100	ND	81.5	70-130	5.60	20	
Ethylbenzene	0.0677	0.00200	"	0.100	ND	67.7	70-130	0.593	20	QM-07
Naphthalene	0.0935	0.00380	"	0.100	ND	93.5	70-130	19.4	20	
Toluene	0.0723	0.00200	"	0.100	ND	72.3	70-130	1.94	20	
o-Xylene	0.0640	0.00200	"	0.100	ND	64.0	70-130	1.80	20	QM-07
m,p-Xylene	0.132	0.00400	"	0.200	ND	66.1	70-130	0.136	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.2	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G0541 - EPA 3050B**

**Blank (B4G0541-BLK1)**

Prepared: 07/05/2024 Analyzed: 07/06/2024

Arsenic	ND	0.290	mg/kg							Ua
Barium	ND	10.0	"							Ua
Cadmium	ND	0.100	"							Ua
Copper	ND	10.0	"							Ua
Lead	ND	1.00	"							Ua
Nickel	ND	1.00	"							Ua
Selenium	ND	0.260	"							Ua
Silver	ND	0.100	"							Ua
Zinc	ND	37.0	"							Ua

**LCS (B4G0541-BS1)**

Prepared: 07/05/2024 Analyzed: 07/06/2024

Arsenic	5.06	0.290	mg/kg	5.00		101	80-120			
Barium	529	10.0	"	500		106	80-120			
Cadmium	5.16	0.100	"	5.00		103	80-120			
Copper	51.5	10.0	"	50.0		103	80-120			
Lead	5.05	1.00	"	5.00		101	80-120			
Nickel	5.14	1.00	"	5.00		103	80-120			
Selenium	4.92	0.260	"	5.00		98.5	80-120			
Silver	5.08	0.100	"	5.00		102	80-120			
Zinc	51.7	37.0	"	50.0		103	80-120			

**Matrix Spike (B4G0541-MS1)**

Source: Y407160-02

Prepared: 07/05/2024 Analyzed: 07/06/2024

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G0541 - EPA 3050B**

<b>Matrix Spike (B4G0541-MS1)</b>		<b>Source: Y407160-02</b>			Prepared: 07/05/2024 Analyzed: 07/06/2024					
Arsenic	8.49	0.289	mg/kg	4.98	3.64	97.6	75-125			
Barium	680	9.95	"	498	173	102	75-125			
Cadmium	5.17	0.0995	"	4.98	0.323	97.3	75-125			
Copper	64.6	9.95	"	49.8	16.4	96.9	75-125			
Lead	17.9	0.995	"	4.98	18.0	NR	75-125			QM-07
Nickel	14.4	0.995	"	4.98	10.8	72.6	75-125			QM-07
Selenium	4.88	0.259	"	4.98	0.416	89.8	75-125			
Silver	5.03	0.0995	"	4.98	0.106	99.0	75-125			
Zinc	109	36.8	"	49.8	69.5	79.7	75-125			

<b>Matrix Spike Dup (B4G0541-MSD1)</b>		<b>Source: Y407160-02</b>			Prepared: 07/05/2024 Analyzed: 07/06/2024					
Arsenic	7.33	0.258	mg/kg	4.45	3.64	83.1	75-125	14.7	20	
Barium	611	8.89	"	445	173	98.6	75-125	10.8	20	
Cadmium	4.72	0.0889	"	4.45	0.323	98.8	75-125	9.08	20	
Copper	61.2	8.89	"	44.5	16.4	101	75-125	5.42	20	
Lead	18.1	0.889	"	4.45	18.0	2.75	75-125	1.23	20	QM-07
Nickel	14.2	0.889	"	4.45	10.8	76.0	75-125	1.62	20	
Selenium	4.70	0.231	"	4.45	0.416	96.5	75-125	3.71	20	
Silver	4.46	0.0889	"	4.45	0.106	98.0	75-125	12.0	20	
Zinc	105	32.9	"	44.5	69.5	80.1	75-125	3.81	20	

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G0536 - EPA 3580**

**Blank (B4G0536-BLK1)**

Prepared: 07/05/2024 Analyzed: 07/05/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	180		"	200		89.4	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

**LCS (B4G0536-BS1)**

Prepared: 07/05/2024 Analyzed: 07/05/2024

1-Methylnaphthalene	0.188	0.002	mg/kg	0.200		94.0	70-130			
2-Methylnaphthalene	0.188	0.002	"	0.200		93.8	70-130			
Acenaphthene	0.200	0.020	"	0.200		99.8	70-130			
Anthracene	0.174	0.020	"	0.200		87.2	70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G0536 - EPA 3580**

**LCS (B4G0536-BS1)**

Prepared: 07/05/2024 Analyzed: 07/05/2024

Benzo (a) anthracene	0.195	0.005	mg/kg	0.200		97.3	70-130			
Benzo (a) pyrene	0.191	0.020	"	0.200		95.5	70-130			
Benzo (b) fluoranthene	0.197	0.020	"	0.200		98.3	70-130			
Benzo (g,h,i) perylene	0.196	0.020	"	0.200		97.8	70-130			
Benzo (k) fluoranthene	0.189	0.020	"	0.200		94.6	70-130			
Chrysene	0.192	0.020	"	0.200		96.1	70-130			
Dibenz (a,h) anthracene	0.193	0.020	"	0.200		96.6	70-130			
Fluoranthene	0.187	0.020	"	0.200		93.7	70-130			
Fluorene	0.209	0.020	"	0.200		105	70-130			
Indeno (1,2,3-cd) pyrene	0.192	0.020	"	0.200		95.8	70-130			
Naphthalene	0.201	0.002	"	0.200		100	70-130			
Phenanthrene	0.182	0.020	"	0.200		90.9	70-130			
Pyrene	0.187	0.020	"	0.200		93.7	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	180		"	200		89.8	60-130			
Surrogate: Pyrene-d10	200		"	200		99.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

**Matrix Spike (B4G0536-MS1)**

Source: Y407157-05

Prepared: 07/05/2024 Analyzed: 07/05/2024

1-Methylnaphthalene	0.208	0.002	mg/kg	0.200	ND	104	70-130			
2-Methylnaphthalene	0.210	0.002	"	0.200	ND	105	70-130			
Acenaphthene	0.216	0.020	"	0.200	ND	108	70-130			
Anthracene	0.194	0.020	"	0.200	ND	96.9	70-130			
Benzo (a) anthracene	0.205	0.005	"	0.200	0.001	102	70-130			
Benzo (a) pyrene	0.217	0.020	"	0.200	0.001	108	70-130			
Benzo (b) fluoranthene	0.211	0.020	"	0.200	0.001	105	70-130			
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	0.001	103	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G0536 - EPA 3580**

<b>Matrix Spike (B4G0536-MS1)</b>		<b>Source: Y407157-05</b>			Prepared: 07/05/2024 Analyzed: 07/05/2024					
Benzo (k) fluoranthene	0.214	0.020	mg/kg	0.200	ND	107	70-130			
Chrysene	0.207	0.020	"	0.200	0.002	102	70-130			
Dibenz (a,h) anthracene	0.215	0.020	"	0.200	ND	108	70-130			
Fluoranthene	0.204	0.020	"	0.200	0.001	102	70-130			
Fluorene	0.226	0.020	"	0.200	ND	113	70-130			
Indeno (1,2,3-cd) pyrene	0.211	0.020	"	0.200	0.001	105	70-130			
Naphthalene	0.220	0.002	"	0.200	ND	110	70-130			
Phenanthrene	0.196	0.020	"	0.200	ND	98.1	70-130			
Pyrene	0.196	0.020	"	0.200	0.002	97.3	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	180		"	200		91.0	60-130			
Surrogate: Pyrene-d10	190		"	200		96.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

<b>Matrix Spike Dup (B4G0536-MSD1)</b>		<b>Source: Y407157-05</b>			Prepared: 07/05/2024 Analyzed: 07/05/2024					
1-Methylnaphthalene	0.206	0.002	mg/kg	0.200	ND	103	70-130	1.14	20	
2-Methylnaphthalene	0.207	0.002	"	0.200	ND	103	70-130	1.62	20	
Acenaphthene	0.213	0.020	"	0.200	ND	106	70-130	1.50	20	
Anthracene	0.191	0.020	"	0.200	ND	95.5	70-130	1.43	20	
Benzo (a) anthracene	0.208	0.005	"	0.200	0.001	103	70-130	1.75	20	
Benzo (a) pyrene	0.204	0.020	"	0.200	0.001	101	70-130	5.85	20	
Benzo (b) fluoranthene	0.201	0.020	"	0.200	0.001	100	70-130	4.84	20	
Benzo (g,h,i) perylene	0.203	0.020	"	0.200	0.001	101	70-130	1.96	20	
Benzo (k) fluoranthene	0.197	0.020	"	0.200	ND	98.5	70-130	8.35	20	
Chrysene	0.207	0.020	"	0.200	0.002	102	70-130	0.191	20	
Dibenz (a,h) anthracene	0.210	0.020	"	0.200	ND	105	70-130	2.28	20	
Fluoranthene	0.199	0.020	"	0.200	0.001	98.6	70-130	2.92	20	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G0536 - EPA 3580**

<b>Matrix Spike Dup (B4G0536-MSD1)</b>	<b>Source: Y407157-05</b>			<b>Prepared: 07/05/2024 Analyzed: 07/05/2024</b>						
Fluorene	0.222	0.020	mg/kg	0.200	ND	111	70-130	1.53	20	
Indeno (1,2,3-cd) pyrene	0.205	0.020	"	0.200	0.001	102	70-130	2.68	20	
Naphthalene	0.216	0.002	"	0.200	ND	108	70-130	2.19	20	
Phenanthrene	0.192	0.020	"	0.200	ND	96.0	70-130	2.15	20	
Pyrene	0.197	0.020	"	0.200	0.002	97.8	70-130	0.524	20	
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	180		"	200		90.1	60-130			
Surrogate: Pyrene-d10	200		"	200		97.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.2	60-130			

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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
<b>Batch B4G0802 - DTPA Sorbitol Preparation</b>										
<b>Blank (B4G0802-BLK1)</b>					Prepared: 07/08/2024 Analyzed: 07/09/2024					
Boron	ND	0.100	mg/L							Ua
<b>Duplicate (B4G0802-DUP1)</b>		<b>Source: Y406267-01</b>			Prepared: 07/08/2024 Analyzed: 07/09/2024					
Boron	0.106	0.101	mg/L		0.126			16.8	50	
<b>Batch B4G0805 - Saturated Paste Metals</b>										
<b>Blank (B4G0805-BLK1)</b>					Prepared: 07/08/2024 Analyzed: 07/09/2024					
SAR	ND	0.0100	SAR							Ua
Calcium PPM	ND	10.0	mg/L							Ua
Magnesium PPM	ND	10.0	"							Ua
Sodium PPM	ND	10.0	"							Ua
<b>Duplicate (B4G0805-DUP1)</b>		<b>Source: Y407138-01</b>			Prepared: 07/08/2024 Analyzed: 07/09/2024					
Calcium PPM	43.9	10.0	mg/L		53.0			18.7	50	
SAR	ND	0.0100	SAR		6.81				200	Ua
Magnesium PPM	15.0	10.0	mg/L		16.9			11.7	50	
Sodium PPM	221	10.0	"		222			0.672	50	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4G0808 - Saturated Paste pH/EC</b>										
<b>Blank (B4G0808-BLK1)</b>					Prepared: 07/08/2024 Analyzed: 07/09/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
<b>Duplicate (B4G0808-DUP1)</b>					<b>Source: Y407138-01</b> Prepared: 07/08/2024 Analyzed: 07/09/2024					
Specific Conductance (EC)	1.65	0.00500	mmhos/cm		1.74		5.32		25	
pH	8.59		pH Units		8.48		1.29		25	

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - HSR - Perconte 16-23

**Total Metals 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2643595 - SW846 3060A</b>										
<b>BLANK (1205795108-BLK)</b>					Prepared: 07/29/2024 Analyzed: 07/30/2024					
Hexavalent Chromium	ND	0.382	mg/kg				-			U
<b>LCS (1205795109-BKS)</b>					Prepared: 07/29/2024 Analyzed: 07/30/2024					
Hexavalent Chromium	2.99	0.300	mg/kg	3.00		99.8	80-120			
<b>DUP (1205795110 D)</b>					Source: 674671001 Prepared: 07/29/2024 Analyzed: 07/30/2024					
Hexavalent Chromium	ND	0.278	mg/kg dry		<0.111		0-50	N/A	50	U
<b>MS (1205795111 S)</b>					Source: 674671001 Prepared: 07/29/2024 Analyzed: 07/30/2024					
Hexavalent Chromium	0.930	0.272	mg/kg dry	2.72	<0.109	31.9	75-125			
<b>DUP (1205795112 D)</b>					Source: 674671002 Prepared: 07/29/2024 Analyzed: 07/30/2024					
Hexavalent Chromium	ND	0.323	mg/kg dry		0.156		0-50	N/A	50	U
<b>MS (1205795113 S)</b>					Source: 674671002 Prepared: 07/29/2024 Analyzed: 07/30/2024					
Hexavalent Chromium	0.722	0.252	mg/kg dry	2.52	0.156	22.5	75-125			
<b>ILCS (1205795114-ILCS)</b>					Prepared: 07/29/2024 Analyzed: 07/30/2024					
Hexavalent Chromium	4.64	0.224	mg/kg	4.50		103	80-120			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - HSR - Perconte 16-23

**Notes and Definitions**

- Ua Sample is Non-Detect.
- U Result not detected above the detection limit
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- J Greater than the detection limit but less than the reporting limit
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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April 15, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Davis, V. 6-26A

Project Number - [none]

Attached are your analytical results for KMG - Davis, V. 6-26A received by Origins Laboratory, Inc. March 11, 2024. This project is associated with Origins project number Y403313-01.

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



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@8'	Y403313-01	Soil	March 11, 2024 14:20	03/11/2024 17:40
FL-B01@5'	Y403313-02	Soil	March 11, 2024 14:22	03/11/2024 17:40
WH-BG01@3'	Y403313-03	Soil	March 11, 2024 14:26	03/11/2024 17:40
WH-BG01@6'	Y403313-04	Soil	March 11, 2024 14:28	03/11/2024 17:40
WH-BG02@3'	Y403313-05	Soil	March 11, 2024 14:30	03/11/2024 17:40
WH-BG02@6'	Y403313-06	Soil	March 11, 2024 14:32	03/11/2024 17:40
WH-BG03@3'	Y403313-07	Soil	March 11, 2024 14:32	03/11/2024 17:40
WH-BG03@6'	Y403313-08	Soil	March 11, 2024 14:34	03/11/2024 17:40
WH-BG04@3'	Y403313-09	Soil	March 11, 2024 14:36	03/11/2024 17:40
WH-BG04@6'	Y403313-10	Soil	March 11, 2024 14:38	03/11/2024 17:40

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

www.originslaboratory.com  
 Initial **Y403313** page 1 of 1  
 Project Manager: **D. Coloccia**  
 Project Name: **HSR DAVIS V. 6-26A DAVIS, V. 6-26A**  
 Project Number: \_\_\_\_\_  
 Samples Collected By: **JW**  
 Client: **Eagle Environmental (Oxy)**  
 Address: **8000 W 44th Ave**  
**Wheat Ridge CO 80033**  
 Telephone Number: **303 433 6479**  
 Email Address: **Dcoloccia@eagle-environment.com**  
**project name revised per AHES email ok 3/12 jbs**

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions				
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other	Fallout		CC/PH	SPE	Biom	Metals
NH-BA1E8'	3/11/24	1420	3	X				X					X				
FC-BA1E5'		1422	1					X									
NH-BA2E3'		1424	2									X	X	X			
NH-BA2E4'		1426															
NH-BA2E5'		1428															
NH-BA2E6'		1430															
NH-BA2E3'		1432															
NH-BA2E4'		1434															
NH-BA2E4 E3'		1436															
NH-BA2E4 E4'		1438															
Relinquished By: <i>dfay</i>	Date: 3/11/24	Time: 1740	Received By: EAS	Date: 3/11/24	Time: 1240	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>											

Temp Received: **8.5** Date Results Needed

Origins Laboratory, Inc.  


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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 410332

Client: Eagle

Client Project ID: TKK-DAVIS V 6-26A

Checklist Completed by: TCM/ETU

Shipped Via: HP

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

Date/time completed: 3/11/12

Airbill #: N/A

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

Cooler Number/Temperature: 17.5 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: TCM

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"/>		SD
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) TCM Date/Time Reviewed 3/11/12

Origins Laboratory, Inc.  


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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-B01@8'**  
**3/11/2024 2:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.208		0.100	mg/L	1	B4C1210	03/12/2024	03/13/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4C1101	03/11/2024	03/12/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.5 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4C1135	03/11/2024	03/12/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.8 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-B01@8'**  
**3/11/2024 2:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	101 %		70-130			B4C11 35	03/11/2024	03/12/2024	
Surrogate: 4-Bromofluorobenzene	99.2 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	29.1		0.499	meq/L	10	[CALC]	03/12/2024	03/13/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	6.07		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4C1131	03/11/2024	03/11/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-B01@8'**  
**3/11/2024 2:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-01 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4C1131	03/11/2024	03/11/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	<b>0.008</b>		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	<b>12.6</b>			pH Units	1	B4C1223	03/12/2024	03/13/2024	
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**SAR by 20B Saturated Paste**

SAR	<b>1.59</b>		0.0100	SAR	1	B4C1217	03/12/2024	03/13/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>7.10</b>		0.00500	mmhos/cm	1	B4C1223	03/12/2024	03/13/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-B01@8'**

**3/11/2024 2:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-01 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	4.23		0.275	mg/kg	10	B4C1140	03/11/2024	03/27/2024	
Barium	135		9.47	"	"	"	"	"	
Cadmium	0.274		0.0947	"	"	"	"	"	
Copper	10.9		9.47	"	"	"	"	"	
Lead	7.94		0.947	"	"	"	"	"	
Nickel	9.95		0.947	"	"	"	"	"	
Selenium	0.583		0.246	"	"	"	"	"	
Silver	ND		0.0947	"	"	"	"	"	
Zinc	ND		35.0	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L743323	03/11/2024	04/09/2024	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**FL-B01@5'**

**3/11/2024 2:22:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.125		0.0996	mg/L	1	B4C1210	03/12/2024	03/13/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4C1101	03/11/2024	03/12/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.2 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4C1135	03/11/2024	03/12/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.9 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

FL-B01@5'

3/11/2024 2:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y403313-02 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	102 %		70-130			B4C11 35	03/11/2024	03/12/2024	
Surrogate: 4-Bromofluorobenzene	99.8 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.01		0.499	meq/L	10	[CALC]	03/12/2024	03/13/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.31		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4C1131	03/11/2024	03/11/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

FL-B01@5'

3/11/2024 2:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y403313-02 (Soil)

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4C1131	03/11/2024	03/11/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	95.0 %		60-130			"	"	"	
Surrogate: Anthracene-d10	97.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	103 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.55			pH Units	1	B4C1223	03/12/2024	03/13/2024	
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**SAR by 20B Saturated Paste**

SAR	1.95		0.0100	SAR	1	B4C1217	03/12/2024	03/13/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.606		0.00500	mmhos/cm	1	B4C1223	03/12/2024	03/13/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

FL-B01@5'

3/11/2024 2:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y403313-02 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	1.55		0.266	mg/kg	10	B4C1140	03/11/2024	03/27/2024	
Barium	56.1		9.18	"	"	"	"	"	
Cadmium	0.172		0.0918	"	"	"	"	"	
Copper	ND		9.18	"	"	"	"	"	
Lead	6.78		0.918	"	"	"	"	"	
Nickel	3.24		0.918	"	"	"	"	"	
Selenium	0.320		0.239	"	"	"	"	"	
Silver	ND		0.0918	"	"	"	"	"	
Zinc	ND		34.0	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L743324	03/11/2024	04/09/2024	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-BG01@3'**  
**3/11/2024 2:26:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.05		0.0992	mg/L	1	B4C1210	03/12/2024	03/13/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.35		0.499	meq/L	10	[CALC]	03/12/2024	03/13/2024	
Magnesium	1.20		0.823	"	"	"	"	"	
Sodium	6.98		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.36			pH Units	1	B4C1223	03/12/2024	03/13/2024	
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**SAR by 20B Saturated Paste**

SAR	5.24		0.0100	SAR	1	B4C1217	03/12/2024	03/13/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.01		0.00500	mmhos/cm	1	B4C1223	03/12/2024	03/13/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	5.57		0.279	mg/kg	10	B4C1140	03/11/2024	03/27/2024	
Barium	374		9.63	"	"	"	"	"	
Cadmium	0.245		0.0963	"	"	"	"	"	
Copper	18.1		9.63	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-BG01@3'**

**3/11/2024 2:26:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-03 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	16.0		0.963	mg/kg	10	B4C1140	03/11/2024	03/27/2024	
Nickel	13.5		0.963	"	"	"	"	"	
Selenium	0.457		0.250	"	"	"	"	"	
Silver	ND		0.0963	"	"	"	"	"	
Zinc	79.3		35.6	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L743324	03/11/2024	04/09/2024	
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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 - Davis, V. 6-26A

**WH-BG01@6'**  
**3/11/2024 2:28:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.269		0.100	mg/L	1	B4C1210	03/12/2024	03/13/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.993		0.499	meq/L	10	[CALC]	03/12/2024	03/13/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	4.53		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.30			pH Units	1	B4C1223	03/12/2024	03/13/2024	
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**SAR by 20B Saturated Paste**

SAR	5.28		0.0100	SAR	1	B4C1217	03/12/2024	03/13/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.637		0.00500	mmhos/cm	1	B4C1223	03/12/2024	03/13/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	2.40		0.257	mg/kg	10	B4C1140	03/11/2024	03/27/2024	
Barium	42.9		8.88	"	"	"	"	"	
Cadmium	0.100		0.0888	"	"	"	"	"	
Copper	ND		8.88	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-BG01@6'**

**3/11/2024 2:28:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-04 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	5.72		0.888	mg/kg	10	B4C1140	03/11/2024	03/27/2024	
Nickel	4.40		0.888	"	"	"	"	"	
Selenium	ND		0.231	"	"	"	"	"	
Silver	ND		0.0888	"	"	"	"	"	
Zinc	ND		32.8	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L743324	03/11/2024	04/09/2024	
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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 - Davis, V. 6-26A

**WH-BG02@3'**  
**3/11/2024 2:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.301		0.100	mg/L	1	B4C1210	03/12/2024	03/13/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.04		0.499	meq/L	10	[CALC]	03/12/2024	03/13/2024	
Magnesium	0.911		0.823	"	"	"	"	"	
Sodium	2.96		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.37			pH Units	1	B4C1223	03/12/2024	03/13/2024	
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**SAR by 20B Saturated Paste**

SAR	2.44		0.0100	SAR	1	B4C1217	03/12/2024	03/13/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.659		0.00500	mmhos/cm	1	B4C1223	03/12/2024	03/13/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	2.61		0.263	mg/kg	10	B4C1140	03/11/2024	03/27/2024	
Barium	74.1		9.07	"	"	"	"	"	
Cadmium	0.137		0.0907	"	"	"	"	"	
Copper	ND		9.07	"	"	"	"	"	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-BG02@3'**

**3/11/2024 2:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-05 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	6.15		0.907	mg/kg	10	B4C1140	03/11/2024	03/27/2024	
Nickel	4.93		0.907	"	"	"	"	"	
Selenium	ND		0.236	"	"	"	"	"	
Silver	ND		0.0907	"	"	"	"	"	
Zinc	ND		33.6	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L743324	03/11/2024	04/09/2024	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-BG02@6'**  
**3/11/2024 2:32:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B4C1210	03/12/2024	03/13/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.11		0.499	meq/L	10	[CALC]	03/12/2024	03/14/2024	
Magnesium	ND		0.823	"	"	"	"	03/13/2024	
Sodium	1.62		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.04			pH Units	1	B4C1224	03/12/2024	03/13/2024	
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**SAR by 20B Saturated Paste**

SAR	1.84		0.0100	SAR	1	B4C1218	03/12/2024	03/13/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.361		0.00500	mmhos/cm	1	B4C1224	03/12/2024	03/13/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.26		0.267	mg/kg	10	B4C1140	03/11/2024	03/27/2024	
Barium	27.4		9.21	"	"	"	"	"	
Cadmium	ND		0.0921	"	"	"	"	"	

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-BG02@6'**

**3/11/2024 2:32:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-06 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.21	mg/kg	10	B4C1140	03/11/2024	03/27/2024	
Lead	<b>3.07</b>		0.921	"	"	"	"	"	
Nickel	<b>1.82</b>		0.921	"	"	"	"	"	
Selenium	ND		0.240	"	"	"	"	"	
Silver	ND		0.0921	"	"	"	"	"	
Zinc	ND		34.1	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L743324	03/11/2024	04/09/2024	
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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 - Davis, V. 6-26A

**WH-BG03@3'**  
**3/11/2024 2:32:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.787		0.100	mg/L	1	B4C1210	03/12/2024	03/13/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	3.81		0.499	meq/L	10	[CALC]	03/12/2024	03/14/2024	
Magnesium	2.03		0.823	"	"	"	"	03/13/2024	
Sodium	9.52		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.37			pH Units	1	B4C1224	03/12/2024	03/13/2024	
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**SAR by 20B Saturated Paste**

SAR	5.57		0.0100	SAR	1	B4C1218	03/12/2024	03/13/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.44		0.00500	mmhos/cm	1	B4C1224	03/12/2024	03/13/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	3.98		0.279	mg/kg	10	B4C1140	03/11/2024	03/27/2024	
Barium	117		9.64	"	"	"	"	"	
Cadmium	0.197		0.0964	"	"	"	"	"	
Copper	11.3		9.64	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-BG03@3'**

**3/11/2024 2:32:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-07 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	10.3		0.964	mg/kg	10	B4C1140	03/11/2024	03/27/2024	
Nickel	7.44		0.964	"	"	"	"	"	
Selenium	0.323		0.251	"	"	"	"	"	
Silver	ND		0.0964	"	"	"	"	"	
Zinc	45.2		35.7	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L743324	03/11/2024	04/09/2024	
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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 - Davis, V. 6-26A

**WH-BG03@6'**  
**3/11/2024 2:34:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.109		0.0994	mg/L	1	B4C1210	03/12/2024	03/13/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.966		0.499	meq/L	10	[CALC]	03/12/2024	03/14/2024	
Magnesium	ND		0.823	"	"	"	"	03/13/2024	
Sodium	3.24		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.15			pH Units	1	B4C1224	03/12/2024	03/13/2024	
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**SAR by 20B Saturated Paste**

SAR	3.83		0.0100	SAR	1	B4C1218	03/12/2024	03/13/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.530		0.00500	mmhos/cm	1	B4C1224	03/12/2024	03/13/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.69		0.261	mg/kg	10	B4C1140	03/11/2024	03/27/2024	
Barium	25.4		8.99	"	"	"	"	"	
Cadmium	0.0908		0.0899	"	"	"	"	"	
Copper	ND		8.99	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-BG03@6'**

**3/11/2024 2:34:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-08 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	4.08		0.899	mg/kg	10	B4C1140	03/11/2024	03/27/2024	
Nickel	2.66		0.899	"	"	"	"	"	
Selenium	ND		0.234	"	"	"	"	"	
Silver	ND		0.0899	"	"	"	"	"	
Zinc	ND		33.3	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L743324	03/11/2024	04/09/2024	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-BG04@3'**  
**3/11/2024 2:36:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.366		0.101	mg/L	1	B4C1210	03/12/2024	03/13/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.05		0.499	meq/L	10	[CALC]	03/12/2024	03/14/2024	
Magnesium	0.930		0.823	"	"	"	"	03/13/2024	
Sodium	4.83		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.27			pH Units	1	B4C1224	03/12/2024	03/13/2024	
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**SAR by 20B Saturated Paste**

SAR	3.96		0.0100	SAR	1	B4C1218	03/12/2024	03/13/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.824		0.00500	mmhos/cm	1	B4C1224	03/12/2024	03/13/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	3.06		0.281	mg/kg	10	B4C1140	03/11/2024	03/27/2024	
Barium	83.2		9.70	"	"	"	"	"	
Cadmium	ND		0.0970	"	"	"	"	"	
Copper	ND		9.70	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-BG04@3'**

**3/11/2024 2:36:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-09 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	8.91		0.970	mg/kg	10	B4C1140	03/11/2024	03/27/2024	
Nickel	7.73		0.970	"	"	"	"	"	
Selenium	0.276		0.252	"	"	"	"	"	
Silver	ND		0.0970	"	"	"	"	"	
Zinc	42.8		35.9	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	1.36	0.244	0.5	mg/Kg	1	L743324	03/11/2024	04/09/2024	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-BG04@6'**  
**3/11/2024 2:38:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0992	mg/L	1	B4C1211	03/12/2024	03/13/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.28		0.499	meq/L	10	[CALC]	03/12/2024	03/14/2024	
Magnesium	ND		0.823	"	"	"	"	03/13/2024	
Sodium	3.06		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.35			pH Units	1	B4C1224	03/12/2024	03/13/2024	
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**SAR by 20B Saturated Paste**

SAR	3.16		0.0100	SAR	1	B4C1218	03/12/2024	03/13/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.529		0.00500	mmhos/cm	1	B4C1224	03/12/2024	03/13/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	0.830		0.254	mg/kg	10	B4C1140	03/11/2024	03/27/2024	
Barium	16.7		8.76	"	"	"	"	"	
Cadmium	ND		0.0876	"	"	"	"	"	

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-BG04@6'**

**3/11/2024 2:38:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403313-10 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.76	mg/kg	10	B4C1140	03/11/2024	03/27/2024	
Lead	<b>1.94</b>		0.876	"	"	"	"	"	
Nickel	<b>1.02</b>		0.876	"	"	"	"	"	
Selenium	ND		0.228	"	"	"	"	"	
Silver	ND		0.0876	"	"	"	"	"	
Zinc	ND		32.4	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L743325	03/11/2024	04/10/2024	
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 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**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
<b>Batch B4C1101 - EPA 3550B</b>										
<b>Blank (B4C1101-BLK1)</b>										
					Prepared: 03/11/2024 Analyzed: 03/11/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	27		"	24.9		109	50-150			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**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 B4C1101 - EPA 3550B**

**LCS (B4C1101-BS1)**

Prepared: 03/11/2024 Analyzed: 03/11/2024

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000		107	70-130			
Surrogate: o-Terphenyl	59		"	49.8		119	50-150			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**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 B4C1101 - EPA 3550B**

<b>Matrix Spike (B4C1101-MS1)</b>	<b>Source: Y403249-01</b>			Prepared: 03/11/2024 Analyzed: 03/11/2024						
Diesel (C10-C28)	912	50.0	mg/kg	1000	208	70.4	70-130			
Residual Range Organics (C28-C40)	959	200	"	1000	122	83.7	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.3	50-150			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**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
<b>Batch B4C1101 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4C1101-MSD1)</b>		<b>Source: Y403249-01</b>			Prepared: 03/11/2024 Analyzed: 03/11/2024					
Diesel (C10-C28)	912	50.0	mg/kg	1000	208	70.4	70-130	0.0527	35	
Residual Range Organics (C28-C40)	955	200	"	1000	122	83.3	70-130	0.401	35	
Surrogate: o-Terphenyl	48		"	49.8		95.6	50-150			

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 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**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
<b>Batch B4C1135 - EPA 5030 (soil)</b>										
<b>Blank (B4C1135-BLK1)</b>										
					Prepared: 03/11/2024 Analyzed: 03/11/2024					
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		89.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**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 B4C1135 - EPA 5030 (soil)**

**LCS (B4C1135-BS1)**

Prepared: 03/11/2024 Analyzed: 03/11/2024

1,2,4-Trimethylbenzene	0.0969	0.00200	mg/kg	0.100		96.9	70-130			
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Benzene	0.0876	0.00200	"	0.100		87.6	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.0953	0.00380	"	0.100		95.3	70-130			
Toluene	0.0933	0.00200	"	0.100		93.3	70-130			
o-Xylene	0.0922	0.00200	"	0.100		92.2	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**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 B4C1135 - EPA 5030 (soil)

Matrix Spike (B4C1135-MS1)	Source: Y403290-01			Prepared: 03/11/2024 Analyzed: 03/11/2024						
1,2,4-Trimethylbenzene	0.0891	0.00200	mg/kg	0.100	ND	89.1	70-130			
1,3,5-Trimethylbenzene	0.0907	0.00200	"	0.100	ND	90.7	70-130			
Benzene	0.0787	0.00200	"	0.100	ND	78.7	70-130			
Ethylbenzene	0.0923	0.00200	"	0.100	ND	92.3	70-130			
Naphthalene	0.0900	0.00380	"	0.100	0.00190	88.1	70-130			
Toluene	0.0852	0.00200	"	0.100	ND	85.2	70-130			
o-Xylene	0.0852	0.00200	"	0.100	ND	85.2	70-130			
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**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 B4C1135 - EPA 5030 (soil)

Matrix Spike Dup (B4C1135-MSD1)	Source: Y403290-01			Prepared: 03/11/2024 Analyzed: 03/11/2024						
1,2,4-Trimethylbenzene	0.0872	0.00200	mg/kg	0.100	ND	87.2	70-130	2.20	20	
1,3,5-Trimethylbenzene	0.0886	0.00200	"	0.100	ND	88.6	70-130	2.39	20	
Benzene	0.0784	0.00200	"	0.100	ND	78.4	70-130	0.458	20	
Ethylbenzene	0.0906	0.00200	"	0.100	ND	90.6	70-130	1.77	20	
Naphthalene	0.0920	0.00380	"	0.100	0.00190	90.1	70-130	2.22	20	
Toluene	0.0859	0.00200	"	0.100	ND	85.9	70-130	0.842	20	
o-Xylene	0.0851	0.00200	"	0.100	ND	85.1	70-130	0.188	20	
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.5	70-130	0.0110	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4C1140 - EPA 3050B**

**Blank (B4C1140-BLK1)**

Prepared: 03/11/2024 Analyzed: 03/27/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

**LCS (B4C1140-BS1)**

Prepared: 03/11/2024 Analyzed: 03/27/2024

Arsenic	5.47	0.290	mg/kg	5.00		109	80-120			
Barium	488	10.0	"	500		97.7	80-120			
Cadmium	5.28	0.100	"	5.00		106	80-120			
Copper	54.9	10.0	"	50.0		110	80-120			
Lead	4.67	1.00	"	5.00		93.3	80-120			
Nickel	4.87	1.00	"	5.00		97.3	80-120			
Selenium	9.57	0.260	"	9.50		101	80-120			
Silver	5.13	0.100	"	5.00		103	80-120			
Zinc	49.2	37.0	"	50.0		98.4	80-120			

**Matrix Spike (B4C1140-MS1)**

Source: Y403303-01

Prepared: 03/11/2024 Analyzed: 03/27/2024

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4C1140 - EPA 3050B**

<b>Matrix Spike (B4C1140-MS1)</b>		<b>Source: Y403303-01</b>			Prepared: 03/11/2024 Analyzed: 03/27/2024					
Arsenic	7.38	0.283	mg/kg	4.88	1.99	111	75-125			
Barium	507	9.76	"	488	25.0	98.8	75-125			
Cadmium	5.42	0.0976	"	4.88	0.243	106	75-125			
Copper	60.6	9.76	"	48.8	5.45	113	75-125			
Lead	10.6	0.976	"	4.88	5.70	99.4	75-125			
Nickel	8.65	0.976	"	4.88	3.18	112	75-125			
Selenium	9.58	0.254	"	9.27	0.0842	102	75-125			
Silver	5.16	0.0976	"	4.88	0.0440	105	75-125			
Zinc	69.8	36.1	"	48.8	18.2	106	75-125			

<b>Matrix Spike Dup (B4C1140-MSD1)</b>		<b>Source: Y403303-01</b>			Prepared: 03/11/2024 Analyzed: 03/27/2024					
Arsenic	7.34	0.289	mg/kg	4.99	1.99	107	75-125	0.626	20	
Barium	517	9.98	"	499	25.0	98.5	75-125	1.77	20	
Cadmium	5.47	0.0998	"	4.99	0.243	105	75-125	1.03	20	
Copper	61.0	9.98	"	49.9	5.45	111	75-125	0.532	20	
Lead	10.1	0.998	"	4.99	5.70	87.5	75-125	4.70	20	
Nickel	8.39	0.998	"	4.99	3.18	104	75-125	3.03	20	
Selenium	9.77	0.260	"	9.48	0.0842	102	75-125	2.01	20	
Silver	5.17	0.0998	"	4.99	0.0440	103	75-125	0.129	20	
Zinc	67.8	36.9	"	49.9	18.2	99.4	75-125	2.85	20	

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 8000 W 44th Ave  
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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4C1131 - EPA 3580**

**Blank (B4C1131-BLK1)**

Prepared: 03/11/2024 Analyzed: 03/11/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		99.1	60-130			
Surrogate: Anthracene-d10	190		"	200		95.3	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

**LCS (B4C1131-BS1)**

Prepared: 03/11/2024 Analyzed: 03/11/2024

1-Methylnaphthalene	0.195	0.002	mg/kg	0.200		97.3	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200		95.2	70-130			
Acenaphthene	0.194	0.020	"	0.200		96.9	70-130			
Anthracene	0.187	0.020	"	0.200		93.3	70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4C1131 - EPA 3580**

**LCS (B4C1131-BS1)**

Prepared: 03/11/2024 Analyzed: 03/11/2024

Benzo (a) anthracene	0.174	0.005	mg/kg	0.200		86.8	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200		97.7	70-130			
Benzo (b) fluoranthene	0.177	0.020	"	0.200		88.7	70-130			
Benzo (g,h,i) perylene	0.170	0.020	"	0.200		84.8	70-130			
Benzo (k) fluoranthene	0.187	0.020	"	0.200		93.7	70-130			
Chrysene	0.182	0.020	"	0.200		90.8	70-130			
Dibenz (a,h) anthracene	0.199	0.020	"	0.200		99.5	70-130			
Fluoranthene	0.160	0.020	"	0.200		79.8	70-130			
Fluorene	0.196	0.020	"	0.200		97.8	70-130			
Indeno (1,2,3-cd) pyrene	0.189	0.020	"	0.200		94.7	70-130			
Naphthalene	0.195	0.002	"	0.200		97.3	70-130			
Phenanthrene	0.193	0.020	"	0.200		96.3	70-130			
Pyrene	0.174	0.020	"	0.200		86.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	180		"	200		87.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

**Matrix Spike (B4C1131-MS1)**

**Source: Y403290-01**

Prepared: 03/11/2024 Analyzed: 03/11/2024

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	0.002	93.5	70-130			
2-Methylnaphthalene	0.187	0.002	"	0.200	0.003	92.0	70-130			
Acenaphthene	0.187	0.020	"	0.200	0.001	92.7	70-130			
Anthracene	0.176	0.020	"	0.200	0.001	87.6	70-130			
Benzo (a) anthracene	0.173	0.005	"	0.200	0.001	85.8	70-130			
Benzo (a) pyrene	0.184	0.020	"	0.200	0.003	90.5	70-130			
Benzo (b) fluoranthene	0.193	0.020	"	0.200	0.0004	96.3	70-130			
Benzo (g,h,i) perylene	0.172	0.020	"	0.200	0.001	85.4	70-130			

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4C1131 - EPA 3580**

<b>Matrix Spike (B4C1131-MS1)</b>		<b>Source: Y403290-01</b>			Prepared: 03/11/2024 Analyzed: 03/11/2024					
Benzo (k) fluoranthene	0.188	0.020	mg/kg	0.200	0.001	93.3	70-130			
Chrysene	0.185	0.020	"	0.200	0.0009	91.9	70-130			
Dibenz (a,h) anthracene	0.202	0.020	"	0.200	ND	101	70-130			
Fluoranthene	0.164	0.020	"	0.200	ND	81.9	70-130			
Fluorene	0.186	0.020	"	0.200	0.0009	92.6	70-130			
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200	ND	95.2	70-130			
Naphthalene	0.188	0.002	"	0.200	ND	94.2	70-130			
Phenanthrene	0.181	0.020	"	0.200	0.001	90.1	70-130			
Pyrene	0.177	0.020	"	0.200	0.002	87.8	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.0	60-130			
Surrogate: Anthracene-d10	200		"	200		98.4	60-130			
Surrogate: Pyrene-d10	190		"	200		95.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

<b>Matrix Spike Dup (B4C1131-MSD1)</b>		<b>Source: Y403290-01</b>			Prepared: 03/11/2024 Analyzed: 03/11/2024					
1-Methylnaphthalene	0.190	0.002	mg/kg	0.200	0.002	94.2	70-130	0.793	20	
2-Methylnaphthalene	0.187	0.002	"	0.200	0.003	92.0	70-130	0.0284	20	
Acenaphthene	0.188	0.020	"	0.200	0.001	93.6	70-130	0.982	20	
Anthracene	0.159	0.020	"	0.200	0.001	78.9	70-130	10.3	20	
Benzo (a) anthracene	0.171	0.005	"	0.200	0.001	84.6	70-130	1.40	20	
Benzo (a) pyrene	0.191	0.020	"	0.200	0.003	94.1	70-130	3.83	20	
Benzo (b) fluoranthene	0.177	0.020	"	0.200	0.0004	88.4	70-130	8.53	20	
Benzo (g,h,i) perylene	0.187	0.020	"	0.200	0.001	92.8	70-130	8.22	20	
Benzo (k) fluoranthene	0.181	0.020	"	0.200	0.001	89.8	70-130	3.82	20	
Chrysene	0.181	0.020	"	0.200	0.0009	90.2	70-130	1.86	20	
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	ND	96.6	70-130	4.28	20	
Fluoranthene	0.173	0.020	"	0.200	ND	86.3	70-130	5.23	20	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4C1131 - EPA 3580**

Matrix Spike Dup (B4C1131-MSD1)	Source: Y403290-01			Prepared: 03/11/2024 Analyzed: 03/11/2024						
Fluorene	0.185	0.020	mg/kg	0.200	0.0009	92.3	70-130	0.414	20	
Indeno (1,2,3-cd) pyrene	0.183	0.020	"	0.200	ND	91.5	70-130	3.99	20	
Naphthalene	0.189	0.002	"	0.200	ND	94.4	70-130	0.197	20	
Phenanthrene	0.191	0.020	"	0.200	0.001	94.8	70-130	5.03	20	
Pyrene	0.175	0.020	"	0.200	0.002	86.9	70-130	1.10	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	180		"	200		88.9	60-130			
Surrogate: Pyrene-d10	180		"	200		90.4	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4C1210 - DTPA Sorbitol Preparation</b>										
<b>Blank (B4C1210-BLK1)</b>					Prepared: 03/12/2024 Analyzed: 03/13/2024					
Boron	ND	0.100	mg/L							
<b>Duplicate (B4C1210-DUP1)</b>		<b>Source: Y403312-04</b>			Prepared: 03/12/2024 Analyzed: 03/13/2024					
Boron	0.126	0.100	mg/L		0.159			23.5	50	
<b>Batch B4C1211 - DTPA Sorbitol Preparation</b>										
<b>Blank (B4C1211-BLK1)</b>					Prepared: 03/12/2024 Analyzed: 03/13/2024					
Boron	ND	0.100	mg/L							
<b>Duplicate (B4C1211-DUP1)</b>		<b>Source: Y403132-01</b>			Prepared: 03/12/2024 Analyzed: 03/13/2024					
Boron	ND	0.100	mg/L		ND				50	
<b>Batch B4C1217 - Saturated Paste Metals</b>										
<b>Blank (B4C1217-BLK1)</b>					Prepared: 03/12/2024 Analyzed: 03/13/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
<b>Duplicate (B4C1217-DUP1)</b>		<b>Source: Y403310-07</b>			Prepared: 03/12/2024 Analyzed: 03/14/2024					
Calcium PPM	368	10.0	mg/L		240			42.1	50	
SAR	ND	0.0100	SAR		2.77				200	
Magnesium PPM	108	10.0	mg/L		76.4			34.2	50	
Sodium PPM	213	10.0	"		192			10.1	50	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**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 B4C1218 - Saturated Paste Metals**

**Blank (B4C1218-BLK1)**

Prepared: 03/12/2024 Analyzed: 03/13/2024

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

**Duplicate (B4C1218-DUP1)**

**Source: Y403152-01**

Prepared: 03/12/2024 Analyzed: 03/13/2024

SAR	ND	0.0100	SAR	1.12					200	
Calcium PPM	53.4	10.0	mg/L	59.9				11.5	50	
Magnesium PPM	24.8	10.0	"	27.7				11.2	50	
Sodium PPM	39.7	10.0	"	41.7				4.91	50	

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4C1223 - Saturated Paste pH/EC**

**Blank (B4C1223-BLK1)**

Prepared: 03/12/2024 Analyzed: 03/13/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4C1223-DUP1)**

**Source: Y403310-07**

Prepared: 03/12/2024 Analyzed: 03/13/2024

pH 8.01 pH Units 8.08 0.870 25

Specific Conductance (EC) 2.36 0.00500 mmhos/cm 1.96 18.8 25

**Batch B4C1224 - Saturated Paste pH/EC**

**Blank (B4C1224-BLK1)**

Prepared: 03/12/2024 Analyzed: 03/13/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4C1224-DUP1)**

**Source: Y403152-01**

Prepared: 03/12/2024 Analyzed: 03/13/2024

Specific Conductance (EC) 0.644 0.00500 mmhos/cm 0.695 7.62 25

pH 8.26 pH Units 8.30 0.483 25

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**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 L743324 -</b>										
<b>DUP (L 89453-DUP)</b>		<b>Source: Y403313-06</b>			Prepared: Analyzed: 04/09/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 89453-MS)</b>		<b>Source: Y403313-06</b>			Prepared: Analyzed: 04/09/2024					
Chromium, Hexavalent	35.6	2.5	mg/Kg	39.1	< 0.244	91	75-125			
<b>LCS (LCS)</b>		Prepared: Analyzed: 04/09/2024								
Chromium, Hexavalent	6.66	0.5	mg/Kg	8		83	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 04/09/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**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 L743325 -</b>										
<b>DUP (L 89457-DUP)</b>		<b>Source: Y403313-10</b>			Prepared: Analyzed: 04/10/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 89457-MS)</b>		<b>Source: Y403313-10</b>			Prepared: Analyzed: 04/10/2024					
Chromium, Hexavalent	34.6	2.5	mg/Kg	39	< 0.244	89	75-125			
<b>LCS (LCS)</b>		Prepared: Analyzed: 04/10/2024								
Chromium, Hexavalent	6.8	0.5	mg/Kg	8		85	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 04/10/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**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 L743323 -</b>										
<b>DUP (L 89489-DUP)</b>		<b>Source: 89489</b>			Prepared: Analyzed: 04/09/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 89489-MS)</b>		<b>Source: 89489</b>			Prepared: Analyzed: 04/09/2024					
Chromium, Hexavalent	34.6	2.5	mg/Kg	39.2	< 0.244	88	75-125			
<b>LCS (LCS)</b>		Prepared: Analyzed: 04/09/2024								
Chromium, Hexavalent	6.97	0.5	mg/Kg	8		87	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 04/09/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Davis, V. 6-26A

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### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager



April 22, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - PIZ 15-23A

Project Number - [none]

Attached are your analytical results for KMG - PIZ 15-23A received by Origins Laboratory, Inc. April 11, 2024. This project is associated with Origins project number Y404346-01.

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



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	Y404346-01	Soil	April 11, 2024 16:10	04/11/2024 17:29
FL-B01@4'	Y404346-02	Soil	April 11, 2024 16:12	04/11/2024 17:29
WH-BG01@3'	Y404346-03	Soil	April 11, 2024 15:24	04/11/2024 17:29
WH-BG01@6'	Y404346-04	Soil	April 11, 2024 15:26	04/11/2024 17:29
WH-BG02@3'	Y404346-05	Soil	April 11, 2024 15:28	04/11/2024 17:29
WH-BG02@6'	Y404346-06	Soil	April 11, 2024 15:30	04/11/2024 17:29
WH-BG03@3'	Y404346-07	Soil	April 11, 2024 15:32	04/11/2024 17:29
WH-BG03@6'	Y404346-08	Soil	April 11, 2024 15:34	04/11/2024 17:29
WH-BG04@3'	Y404346-09	Soil	April 11, 2024 15:36	04/11/2024 17:29
WH-BG04@6'	Y404346-10	Soil	April 11, 2024 15:38	04/11/2024 17:29
WH-BG05@3'	Y404346-11	Soil	April 11, 2024 15:40	04/11/2024 17:29
WH-BG05@6'	Y404346-12	Soil	April 11, 2024 15:42	04/11/2024 17:29
WH-BG06@3'	Y404346-13	Soil	April 11, 2024 15:44	04/11/2024 17:29
WH-BG06@6'	Y404346-14	Soil	April 11, 2024 15:46	04/11/2024 17:29

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---

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - PIZ 15-23A

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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

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



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Initial  
 4404346

page 1 of 2

Client: Eagle Environmental (DXY)  
 Address: 8000 W 44th Ave  
 Telephone Number: 303-433-0419  
 Email Address: dcoloccia@eagle-enviro.com  
 Project Manager: Dan Coloccia  
 Project Name: PIZ 15-23A  
 Project Number: -  
 Samples Collected By: CB

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions				
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	Full Table 915-1	EC/PH	SAR		Boron	Metals		
WH-B01@6'	4/11/24	16:10	3	X					X			X							
FL-B01@4'		16:12	1																
WH-B601@3'		15:24	2									X							
WH-B601@6'		15:26										X							
WH-B601@3'		15:28										X							
WH-B601@6'		15:30										X							
WH-B603@3'		15:32										X							
WH-B603@6'		15:34										X							
WH-B604@3'		15:36										X							
WH-B604@6'		15:38										X							
Relinquished By: <u>Brandon Baker</u>	Date: <u>4/11/24</u>	Time: <u>17:29</u>	Received By: <u>CB</u>	Date: <u>4/11/24</u>	Time: <u>17:29</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard													

Temp Received - 99

Date Results Needed

Origins Laboratory, Inc.

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

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

**Sample Receipt Checklist**

Origins Work Order: 4404340 Client: Eagle  
 Client Project ID: PIZ 15-23A

Checklist Completed by: EAD Shipped Via: HO  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Date/time completed: 4/11/12 Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 19.4 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)  
 Thermometer ID: 7005

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> ?		/		SD
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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)			/	
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] 4/11/12  
 Reviewed by (Project Manager) 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, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-B01@6'**  
**4/11/2024 4:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.371		0.101	mg/L	1	B4D1208	04/12/2024	04/16/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D1133	04/11/2024	04/12/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	102 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.00550		0.00200	mg/kg	1	B4D1134	04/11/2024	04/12/2024	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	0.287		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	123 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.6 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-B01@6'**  
**4/11/2024 4:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	99.6 %	70-130				B4D11 34	04/11/2024	04/12/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	13.9	0.499	meq/L	10	[CALC]		04/12/2024	04/15/2024	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	1.79	0.435	"	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.006	0.002	mg/kg	1	B4D1129		04/11/2024	04/12/2024	
2-Methylnaphthalene	0.010	0.002	"	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-B01@6'**

**4/11/2024 4:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-01 (Soil)**

**PAH by EPA 8270E**

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4D1129	04/11/2024	04/12/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	106 %		60-130			"	"	"	
Surrogate: Pyrene-d10	87.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	87.9 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	12.2			pH Units	1	B4D1213	04/12/2024	04/12/2024	
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**SAR by 20B Saturated Paste**

SAR	0.678		0.0100	SAR	1	B4D1203	04/12/2024	04/15/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	3.86		0.00500	mmhos/cm	1	B4D1213	04/12/2024	04/12/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	2.72		0.266	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-B01@6'**

**4/11/2024 4:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-01 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	82.5		9.17	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Cadmium	0.295		0.0917	"	"	"	"	"	
Copper	13.5		9.17	"	"	"	"	"	
Lead	23.0		0.917	"	"	"	"	"	
Nickel	7.53		0.917	"	"	"	"	"	
Selenium	ND		0.238	"	"	"	"	"	
Silver	0.124		0.0917	"	"	"	"	"	
Zinc	45.9		33.9	"	"	"	"	"	

**Total Metals by 7196A**

**U**

Hexavalent Chromium	ND	0.122	0.305	mg/kg dry	1	2598540	04/18/2024	04/19/2024	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**FL-B01@4'**

**4/11/2024 4:12:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		1.01	mg/L	10	B4D1208	04/12/2024	04/16/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D1133	04/11/2024	04/12/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	104 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D1134	04/11/2024	04/12/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	121 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**FL-B01@4'**

**4/11/2024 4:12:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	95.8 %		70-130			B4D11 34	04/11/2024	04/12/2024	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.15	0.499	meq/L	10	[CALC]		04/12/2024	04/15/2024	
Magnesium	0.932	0.823	"	"	"	"	"	"	
Sodium	0.552	0.435	"	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D1129		04/11/2024	04/12/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**FL-B01@4'**

**4/11/2024 4:12:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-02 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4D1129	04/11/2024	04/12/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.2 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	86.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	93.0 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.50			pH Units	1	B4D1213	04/12/2024	04/12/2024	
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**SAR by 20B Saturated Paste**

SAR	0.541		0.0100	SAR	1	B4D1203	04/12/2024	04/15/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.366		0.00500	mmhos/cm	1	B4D1213	04/12/2024	04/12/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

FL-B01@4'

4/11/2024 4:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y404346-02 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	3.51	0.274	mg/kg	10	B4D1143	04/11/2024	04/12/2024
Barium	122	9.44	"	"	"	"	"
Cadmium	0.362	0.0944	"	"	"	"	"
Copper	21.7	9.44	"	"	"	"	"
Lead	25.2	0.944	"	"	"	"	"
Nickel	8.33	0.944	"	"	"	"	"
Selenium	ND	0.246	"	"	"	"	"
Silver	0.143	0.0944	"	"	"	"	"
Zinc	67.9	34.9	"	"	"	"	"

**Total Metals by 7196A**

U

Hexavalent Chromium	ND	0.131	0.326	mg/kg dry	1	2598540	04/18/2024	04/19/2024
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG01@3'**

**4/11/2024 3:24:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.04		0.987	mg/L	10	B4D1208	04/12/2024	04/16/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	20.7		0.499	meq/L	"	[CALC]	04/12/2024	04/15/2024	
Magnesium	10.7		0.823	"	"	"	"	"	
Sodium	47.0		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.17			pH Units	1	B4D1213	04/12/2024	04/12/2024	
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**SAR by 20B Saturated Paste**

SAR	11.8		0.0100	SAR	1	B4D1203	04/12/2024	04/15/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	5.81		0.00500	mmhos/cm	1	B4D1213	04/12/2024	04/12/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	5.20		0.264	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Barium	179		9.09	"	"	"	"	"	
Cadmium	0.157		0.0909	"	"	"	"	"	
Copper	19.5		9.09	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG01@3'**

**4/11/2024 3:24:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-03 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	16.0		0.909	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Nickel	14.5		0.909	"	"	"	"	"	
Selenium	0.303		0.236	"	"	"	"	"	
Silver	ND		0.0909	"	"	"	"	"	
Zinc	84.1		33.6	"	"	"	"	"	

**Total Metals by 7196A**

**U**

Hexavalent Chromium	ND	0.203	0.509	mg/kg dry	1	2598540	04/18/2024	04/19/2024	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG01@6'**

**4/11/2024 3:26:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.993	mg/L	10	B4D1209	04/12/2024	04/16/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	"	[CALC]	04/12/2024	04/15/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.32		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.83			pH Units	1	B4D1213	04/12/2024	04/12/2024	
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**SAR by 20B Saturated Paste**

SAR	2.30		0.0100	SAR	1	B4D1203	04/12/2024	04/15/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.245		0.00500	mmhos/cm	1	B4D1213	04/12/2024	04/12/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	0.825		0.271	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Barium	15.7		9.35	"	"	"	"	"	
Cadmium	ND		0.0935	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG01@6'**

**4/11/2024 3:26:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-04 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.35	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Lead	<b>2.89</b>		0.935	"	"	"	"	"	
Nickel	<b>1.58</b>		0.935	"	"	"	"	"	
Selenium	ND		0.243	"	"	"	"	"	
Silver	ND		0.0935	"	"	"	"	"	
Zinc	ND		34.6	"	"	"	"	"	

**Total Metals by 7196A**

**U**

Hexavalent Chromium	ND	0.0974	0.243	mg/kg dry	1	2598540	04/18/2024	04/19/2024	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG02@3'**  
**4/11/2024 3:28:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.994	mg/L	10	B4D1209	04/12/2024	04/16/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	21.3		0.499	meq/L	"	[CALC]	04/12/2024	04/15/2024	
Magnesium	18.4		0.823	"	"	"	"	"	
Sodium	46.5		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.01			pH Units	1	B4D1214	04/12/2024	04/12/2024	
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**SAR by 20B Saturated Paste**

SAR	10.4		0.0100	SAR	1	B4D1204	04/12/2024	04/15/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	5.89		0.00500	mmhos/cm	1	B4D1214	04/12/2024	04/12/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	5.46		0.256	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Barium	113		8.82	"	"	"	"	"	
Cadmium	0.949		0.0882	"	"	"	"	"	
Copper	29.7		8.82	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG02@3'**

**4/11/2024 3:28:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-05 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	38.7		0.882	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Nickel	9.62		0.882	"	"	"	"	"	
Selenium	0.455		0.229	"	"	"	"	"	
Silver	0.338		0.0882	"	"	"	"	"	
Zinc	118		32.7	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.155	0.387	mg/kg dry	1	2597963	04/16/2024	04/19/2024	U
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG02@6'**  
**4/11/2024 3:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0982	mg/L	1	B4D1209	04/12/2024	04/16/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	3.16		0.499	meq/L	10	[CALC]	04/12/2024	04/15/2024	
Magnesium	1.25		0.823	"	"	"	"	"	
Sodium	4.01		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.22			pH Units	1	B4D1214	04/12/2024	04/12/2024	
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**SAR by 20B Saturated Paste**

SAR	2.70		0.0100	SAR	1	B4D1204	04/12/2024	04/15/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.967		0.00500	mmhos/cm	1	B4D1214	04/12/2024	04/12/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	4.89		0.256	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Barium	48.0		8.83	"	"	"	"	"	
Cadmium	0.109		0.0883	"	"	"	"	"	
Copper	ND		8.83	"	"	"	"	"	

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG02@6'**

**4/11/2024 3:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-06 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	17.1		0.883	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Nickel	5.67		0.883	"	"	"	"	"	
Selenium	0.277		0.229	"	"	"	"	"	
Silver	ND		0.0883	"	"	"	"	"	
Zinc	ND		32.7	"	"	"	"	"	

**Total Metals by 7196A**

**U**

Hexavalent Chromium	ND	0.141	0.351	mg/kg dry	1	2597963	04/16/2024	04/19/2024	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG03@3'**

**4/11/2024 3:32:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		1.01	mg/L	10	B4D1209	04/12/2024	04/16/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	"	[CALC]	04/12/2024	04/15/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.61			pH Units	1	B4D1214	04/12/2024	04/12/2024	
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**SAR by 20B Saturated Paste**

SAR	0.275		0.0100	SAR	1	B4D1204	04/12/2024	04/15/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0816		0.00500	mmhos/cm	1	B4D1214	04/12/2024	04/12/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.90		0.289	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Barium	57.3		9.98	"	"	"	"	"	
Cadmium	0.0998		0.0998	"	"	"	"	"	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG03@3'**

**4/11/2024 3:32:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-07 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.98	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Lead	<b>7.07</b>		0.998	"	"	"	"	"	
Nickel	<b>4.09</b>		0.998	"	"	"	"	"	
Selenium	ND		0.260	"	"	"	"	"	
Silver	ND		0.0998	"	"	"	"	"	
Zinc	ND		36.9	"	"	"	"	"	

**Total Metals by 7196A**

**U**

Hexavalent Chromium	ND	0.140	0.349	mg/kg dry	1	2597963	04/16/2024	04/19/2024	
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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG03@6'**

**4/11/2024 3:34:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.102	mg/L	1	B4D1209	04/12/2024	04/16/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.519		0.499	meq/L	10	[CALC]	04/12/2024	04/15/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.00		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.34			pH Units	1	B4D1214	04/12/2024	04/12/2024	
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**SAR by 20B Saturated Paste**

SAR	3.14		0.0100	SAR	1	B4D1204	04/12/2024	04/15/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.273		0.00500	mmhos/cm	1	B4D1214	04/12/2024	04/12/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	0.969		0.255	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Barium	20.8		8.81	"	"	"	"	"	
Cadmium	ND		0.0881	"	"	"	"	"	

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - PIZ 15-23A

**WH-BG03@6'**

**4/11/2024 3:34:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-08 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.81	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Lead	<b>3.53</b>		0.881	"	"	"	"	"	
Nickel	<b>1.85</b>		0.881	"	"	"	"	"	
Selenium	ND		0.229	"	"	"	"	"	
Silver	ND		0.0881	"	"	"	"	"	
Zinc	ND		32.6	"	"	"	"	"	

**Total Metals by 7196A**

**U**

Hexavalent Chromium	ND	0.0998	0.250	mg/kg dry	1	2597963	04/16/2024	04/19/2024	
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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG04@3'**  
**4/11/2024 3:36:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.457		0.101	mg/L	1	B4D1209	04/12/2024	04/16/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.846		0.499	meq/L	10	[CALC]	04/12/2024	04/15/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.39		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.12			pH Units	1	B4D1214	04/12/2024	04/12/2024	
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**SAR by 20B Saturated Paste**

SAR	1.77		0.0100	SAR	1	B4D1204	04/12/2024	04/15/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.272		0.00500	mmhos/cm	1	B4D1214	04/12/2024	04/12/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	4.01		0.270	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Barium	168		9.32	"	"	"	"	"	
Cadmium	0.130		0.0932	"	"	"	"	"	
Copper	14.7		9.32	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG04@3'**

**4/11/2024 3:36:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-09 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	12.2		0.932	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Nickel	11.5		0.932	"	"	"	"	"	
Selenium	ND		0.242	"	"	"	"	"	
Silver	0.173		0.0932	"	"	"	"	"	
Zinc	67.4		34.5	"	"	"	"	"	

**Total Metals by 7196A**

**U**

Hexavalent Chromium	ND	0.174	0.434	mg/kg dry	1	2597963	04/16/2024	04/19/2024	
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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 - PIZ 15-23A

**WH-BG04@6'**

**4/11/2024 3:38:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.125		0.0991	mg/L	1	B4D1209	04/12/2024	04/16/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.716		0.499	meq/L	10	[CALC]	04/12/2024	04/15/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.22		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.21			pH Units	1	B4D1214	04/12/2024	04/12/2024	
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**SAR by 20B Saturated Paste**

SAR	3.06		0.0100	SAR	1	B4D1204	04/12/2024	04/15/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.308		0.00500	mmhos/cm	1	B4D1214	04/12/2024	04/12/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.63		0.245	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Barium	44.8		8.45	"	"	"	"	"	
Cadmium	ND		0.0845	"	"	"	"	"	
Copper	ND		8.45	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG04@6'**

**4/11/2024 3:38:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-10 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	8.05		0.845	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Nickel	3.83		0.845	"	"	"	"	"	
Selenium	ND		0.220	"	"	"	"	"	
Silver	ND		0.0845	"	"	"	"	"	
Zinc	ND		31.2	"	"	"	"	"	

**Total Metals by 7196A**

**U**

Hexavalent Chromium	ND	0.130	0.325	mg/kg dry	1	2597963	04/16/2024	04/19/2024	
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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 - PIZ 15-23A

**WH-BG05@3'**

**4/11/2024 3:40:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-11 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.985	mg/L	10	B4D1209	04/12/2024	04/16/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.06		0.499	meq/L	"	[CALC]	04/12/2024	04/15/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.82		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.25			pH Units	1	B4D1214	04/12/2024	04/12/2024	
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**SAR by 20B Saturated Paste**

SAR	3.21		0.0100	SAR	1	B4D1204	04/12/2024	04/15/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.427		0.00500	mmhos/cm	1	B4D1214	04/12/2024	04/12/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	4.77		0.282	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Barium	215		9.73	"	"	"	"	"	
Cadmium	0.118		0.0973	"	"	"	"	"	
Copper	20.8		9.73	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG05@3'**

**4/11/2024 3:40:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-11 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	16.9		0.973	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Nickel	15.1		0.973	"	"	"	"	"	
Selenium	0.264		0.253	"	"	"	"	"	
Silver	ND		0.0973	"	"	"	"	"	
Zinc	91.8		36.0	"	"	"	"	"	

**Total Metals by 7196A**

**U**

Hexavalent Chromium	ND	0.190	0.475	mg/kg dry	1	2597963	04/16/2024	04/19/2024	
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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 - PIZ 15-23A

**WH-BG05@6'**

**4/11/2024 3:42:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-12 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B4D1209	04/12/2024	04/16/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.960		0.499	meq/L	10	[CALC]	04/12/2024	04/15/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.78		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.17			pH Units	1	B4D1214	04/12/2024	04/12/2024	
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**SAR by 20B Saturated Paste**

SAR	2.14		0.0100	SAR	1	B4D1204	04/12/2024	04/15/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.352		0.00500	mmhos/cm	1	B4D1214	04/12/2024	04/12/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.28		0.275	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Barium	25.4		9.48	"	"	"	"	"	
Cadmium	ND		0.0948	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG05@6'**

**4/11/2024 3:42:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-12 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.48	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Lead	<b>4.20</b>		0.948	"	"	"	"	"	
Nickel	<b>2.48</b>		0.948	"	"	"	"	"	
Selenium	ND		0.246	"	"	"	"	"	
Silver	ND		0.0948	"	"	"	"	"	
Zinc	ND		35.1	"	"	"	"	"	

**Total Metals by 7196A**

**U**

Hexavalent Chromium	ND	0.152	0.381	mg/kg dry	1	2597963	04/16/2024	04/19/2024	
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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG06@3'**

**4/11/2024 3:44:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-13 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.362		0.0996	mg/L	1	B4D1209	04/12/2024	04/16/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	3.31		0.499	meq/L	10	[CALC]	04/12/2024	04/15/2024	
Magnesium	1.56		0.823	"	"	"	"	"	
Sodium	11.6		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.38			pH Units	1	B4D1214	04/12/2024	04/12/2024	
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**SAR by 20B Saturated Paste**

SAR	7.42		0.0100	SAR	1	B4D1204	04/12/2024	04/15/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.63		0.00500	mmhos/cm	1	B4D1214	04/12/2024	04/12/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	3.96		0.282	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Barium	159		9.71	"	"	"	"	"	
Cadmium	0.116		0.0971	"	"	"	"	"	
Copper	14.4		9.71	"	"	"	"	"	

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG06@3'**

**4/11/2024 3:44:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-13 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	12.9		0.971	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Nickel	10.9		0.971	"	"	"	"	"	
Selenium	ND		0.253	"	"	"	"	"	
Silver	ND		0.0971	"	"	"	"	"	
Zinc	67.7		35.9	"	"	"	"	"	

**Total Metals by 7196A**

**U**

Hexavalent Chromium	ND	0.178	0.446	mg/kg dry	1	2598540	04/18/2024	04/19/2024	
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Origins Laboratory, Inc.



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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG06@6'**

**4/11/2024 3:46:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-14 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.199		0.101	mg/L	1	B4D1209	04/12/2024	04/16/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.686		0.499	meq/L	10	[CALC]	04/12/2024	04/15/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	4.30		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.19			pH Units	1	B4D1214	04/12/2024	04/12/2024	
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**SAR by 20B Saturated Paste**

SAR	5.94		0.0100	SAR	1	B4D1204	04/12/2024	04/15/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.635		0.00500	mmhos/cm	1	B4D1214	04/12/2024	04/12/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	2.46		0.287	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Barium	48.7		9.88	"	"	"	"	"	
Cadmium	ND		0.0988	"	"	"	"	"	
Copper	ND		9.88	"	"	"	"	"	

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**WH-BG06@6'**

**4/11/2024 3:46:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404346-14 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	5.40		0.988	mg/kg	10	B4D1143	04/11/2024	04/12/2024	
Nickel	3.04		0.988	"	"	"	"	"	
Selenium	ND		0.257	"	"	"	"	"	
Silver	ND		0.0988	"	"	"	"	"	
Zinc	ND		36.6	"	"	"	"	"	

**Total Metals by 7196A**

**U**

Hexavalent Chromium	ND	0.126	0.315	mg/kg dry	1	2597963	04/16/2024	04/19/2024	
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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**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
<b>Batch B4D1133 - EPA 3550B</b>										
<b>Blank (B4D1133-BLK1)</b>										
					Prepared: 04/11/2024 Analyzed: 04/11/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	27		"	24.9		110	50-150			

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**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 B4D1133 - EPA 3550B**

**LCS (B4D1133-BS1)**

Prepared: 04/11/2024 Analyzed: 04/11/2024

Diesel (C10-C28)	987	50.0	mg/kg	1000		98.7	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000		105	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

Origins Laboratory, Inc.



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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**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 B4D1133 - EPA 3550B**

<b>Matrix Spike (B4D1133-MS1)</b>	<b>Source: Y404330-01</b>			<b>Prepared: 04/11/2024 Analyzed: 04/11/2024</b>						
Diesel (C10-C28)	879	50.0	mg/kg	1000	ND	87.9	70-130			
Residual Range Organics (C28-C40)	958	200	"	1000	ND	95.8	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

Origins Laboratory, Inc.



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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**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
<b>Batch B4D1133 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4D1133-MSD1)</b>		<b>Source: Y404330-01</b>			Prepared: 04/11/2024 Analyzed: 04/11/2024					
Diesel (C10-C28)	931	50.0	mg/kg	1000	ND	93.1	70-130	5.75	35	
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130	6.38	35	
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**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 B4D1134 - EPA 5030 (soil)**

**Blank (B4D1134-BLK1)**

Prepared: 04/11/2024 Analyzed: 04/11/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	111		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	93.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.9		70-130			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**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 B4D1134 - EPA 5030 (soil)

**LCS (B4D1134-BS1)**

Prepared: 04/11/2024 Analyzed: 04/11/2024

1,2,4-Trimethylbenzene	0.0975	0.00200	mg/kg	0.100		97.5	70-130			
1,3,5-Trimethylbenzene	0.0986	0.00200	"	0.100		98.6	70-130			
Benzene	0.0911	0.00200	"	0.100		91.1	70-130			
Ethylbenzene	0.0855	0.00200	"	0.100		85.5	70-130			
Naphthalene	0.0825	0.00380	"	0.100		82.5	70-130			
Toluene	0.0808	0.00200	"	0.100		80.8	70-130			
o-Xylene	0.0829	0.00200	"	0.100		82.9	70-130			
m,p-Xylene	0.174	0.00400	"	0.200		87.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**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 B4D1134 - EPA 5030 (soil)

Matrix Spike (B4D1134-MS1)	Source: Y404330-01			Prepared: 04/11/2024 Analyzed: 04/11/2024						
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Benzene	0.105	0.00200	"	0.100	ND	105	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.0910	0.00380	"	0.100	0.000880	90.1	70-130			
Toluene	0.0947	0.00200	"	0.100	ND	94.7	70-130			
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130			
m,p-Xylene	0.214	0.00400	"	0.200	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**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 B4D1134 - EPA 5030 (soil)

Matrix Spike Dup (B4D1134-MSD1)	Source: Y404330-01		Prepared: 04/11/2024 Analyzed: 04/11/2024							
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130	2.70	20	
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	2.48	20	
Benzene	0.0979	0.00200	"	0.100	ND	97.9	70-130	6.75	20	
Ethylbenzene	0.0991	0.00200	"	0.100	ND	99.1	70-130	1.72	20	
Naphthalene	0.0867	0.00380	"	0.100	0.000880	85.8	70-130	4.84	20	
Toluene	0.0911	0.00200	"	0.100	ND	91.1	70-130	3.81	20	
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130	1.28	20	
m,p-Xylene	0.211	0.00400	"	0.200	ND	105	70-130	1.42	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D1143 - EPA 3050B**

**Blank (B4D1143-BLK1)**

Prepared: 04/11/2024 Analyzed: 04/12/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

**LCS (B4D1143-BS1)**

Prepared: 04/11/2024 Analyzed: 04/12/2024

Arsenic	5.40	0.290	mg/kg	5.00		108	80-120			
Barium	518	10.0	"	500		104	80-120			
Cadmium	5.40	0.100	"	5.00		108	80-120			
Copper	55.8	10.0	"	50.0		112	80-120			
Lead	5.11	1.00	"	5.00		102	80-120			
Nickel	5.61	1.00	"	5.00		112	80-120			
Selenium	10.4	0.260	"	9.50		110	80-120			
Silver	5.34	0.100	"	5.00		107	80-120			
Zinc	53.1	37.0	"	50.0		106	80-120			

**Matrix Spike (B4D1143-MS1)**

Source: Y404346-01

Prepared: 04/11/2024 Analyzed: 04/12/2024

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D1143 - EPA 3050B**

<b>Matrix Spike (B4D1143-MS1)</b>		<b>Source: Y404346-01</b>			Prepared: 04/11/2024 Analyzed: 04/12/2024					
Arsenic	10.4	0.276	mg/kg	4.76	2.72	161	75-125			QM-07
Barium	682	9.52	"	476	82.5	126	75-125			QM-07
Cadmium	5.44	0.0952	"	4.76	0.295	108	75-125			
Copper	72.1	9.52	"	47.6	13.5	123	75-125			
Lead	20.8	0.952	"	4.76	23.0	NR	75-125			QM-07
Nickel	18.9	0.952	"	4.76	7.53	240	75-125			QM-07
Selenium	10.3	0.248	"	9.05	0.202	112	75-125			
Silver	4.93	0.0952	"	4.76	0.124	101	75-125			
Zinc	133	35.2	"	47.6	45.9	183	75-125			QM-07

<b>Matrix Spike Dup (B4D1143-MSD1)</b>		<b>Source: Y404346-01</b>			Prepared: 04/11/2024 Analyzed: 04/12/2024					
Arsenic	10.4	0.272	mg/kg	4.69	2.72	164	75-125	0.0107	20	QM-07
Barium	682	9.38	"	469	82.5	128	75-125	0.00297	20	QM-07
Cadmium	5.41	0.0938	"	4.69	0.295	109	75-125	0.552	20	
Copper	70.4	9.38	"	46.9	13.5	121	75-125	2.32	20	
Lead	21.0	0.938	"	4.69	23.0	NR	75-125	1.15	20	QM-07
Nickel	19.2	0.938	"	4.69	7.53	248	75-125	1.10	20	QM-07
Selenium	9.81	0.244	"	8.91	0.202	108	75-125	5.01	20	
Silver	5.03	0.0938	"	4.69	0.124	105	75-125	1.94	20	
Zinc	135	34.7	"	46.9	45.9	190	75-125	1.28	20	QM-07

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D1129 - EPA 3580**

**Blank (B4D1129-BLK1)**

Prepared: 04/11/2024 Analyzed: 04/11/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		98.7	60-130			
Surrogate: Anthracene-d10	190		"	200		94.0	60-130			
Surrogate: Pyrene-d10	170		"	200		87.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

**LCS (B4D1129-BS1)**

Prepared: 04/11/2024 Analyzed: 04/11/2024

1-Methylnaphthalene	0.198	0.002	mg/kg	0.200		99.1	70-130			
2-Methylnaphthalene	0.197	0.002	"	0.200		98.6	70-130			
Acenaphthene	0.191	0.020	"	0.200		95.6	70-130			
Anthracene	0.201	0.020	"	0.200		100	70-130			

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D1129 - EPA 3580**

**LCS (B4D1129-BS1)**

Prepared: 04/11/2024 Analyzed: 04/11/2024

Benzo (a) anthracene	0.183	0.005	mg/kg	0.200		91.3	70-130			
Benzo (a) pyrene	0.194	0.020	"	0.200		96.8	70-130			
Benzo (b) fluoranthene	0.184	0.020	"	0.200		91.8	70-130			
Benzo (g,h,i) perylene	0.201	0.020	"	0.200		100	70-130			
Benzo (k) fluoranthene	0.177	0.020	"	0.200		88.5	70-130			
Chrysene	0.187	0.020	"	0.200		93.5	70-130			
Dibenz (a,h) anthracene	0.189	0.020	"	0.200		94.4	70-130			
Fluoranthene	0.213	0.020	"	0.200		107	70-130			
Fluorene	0.193	0.020	"	0.200		96.3	70-130			
Indeno (1,2,3-cd) pyrene	0.234	0.020	"	0.200		117	70-130			
Naphthalene	0.192	0.002	"	0.200		95.8	70-130			
Phenanthrene	0.192	0.020	"	0.200		96.2	70-130			
Pyrene	0.173	0.020	"	0.200		86.5	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.9	60-130			
Surrogate: Anthracene-d10	200		"	200		99.3	60-130			
Surrogate: Pyrene-d10	180		"	200		88.3	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.2	60-130			

**Matrix Spike (B4D1129-MS1)**

**Source: Y404330-01**

Prepared: 04/11/2024 Analyzed: 04/11/2024

1-Methylnaphthalene	0.194	0.002	mg/kg	0.200	ND	97.2	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200	ND	95.1	70-130			
Acenaphthene	0.186	0.020	"	0.200	ND	93.0	70-130			
Anthracene	0.187	0.020	"	0.200	0.001	92.8	70-130			
Benzo (a) anthracene	0.202	0.005	"	0.200	ND	101	70-130			
Benzo (a) pyrene	0.185	0.020	"	0.200	ND	92.5	70-130			
Benzo (b) fluoranthene	0.176	0.020	"	0.200	0.0003	87.7	70-130			
Benzo (g,h,i) perylene	0.187	0.020	"	0.200	ND	93.7	70-130			

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D1129 - EPA 3580**

<b>Matrix Spike (B4D1129-MS1)</b>		<b>Source: Y404330-01</b>			Prepared: 04/11/2024 Analyzed: 04/11/2024					
Benzo (k) fluoranthene	0.193	0.020	mg/kg	0.200	ND	96.4	70-130			
Chrysene	0.193	0.020	"	0.200	0.0006	96.4	70-130			
Dibenz (a,h) anthracene	0.185	0.020	"	0.200	ND	92.5	70-130			
Fluoranthene	0.221	0.020	"	0.200	0.001	110	70-130			
Fluorene	0.189	0.020	"	0.200	ND	94.5	70-130			
Indeno (1,2,3-cd) pyrene	0.224	0.020	"	0.200	ND	112	70-130			
Naphthalene	0.186	0.002	"	0.200	ND	93.0	70-130			
Phenanthrene	0.193	0.020	"	0.200	ND	96.3	70-130			
Pyrene	0.162	0.020	"	0.200	0.0008	80.5	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.1	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	170		"	200		84.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.6	60-130			

<b>Matrix Spike Dup (B4D1129-MSD1)</b>		<b>Source: Y404330-01</b>			Prepared: 04/11/2024 Analyzed: 04/11/2024					
1-Methylnaphthalene	0.200	0.002	mg/kg	0.200	ND	100	70-130	2.84	20	
2-Methylnaphthalene	0.196	0.002	"	0.200	ND	98.1	70-130	3.07	20	
Acenaphthene	0.194	0.020	"	0.200	ND	97.2	70-130	4.40	20	
Anthracene	0.187	0.020	"	0.200	0.001	93.1	70-130	0.312	20	
Benzo (a) anthracene	0.205	0.005	"	0.200	ND	102	70-130	1.40	20	
Benzo (a) pyrene	0.189	0.020	"	0.200	ND	94.5	70-130	2.06	20	
Benzo (b) fluoranthene	0.182	0.020	"	0.200	0.0003	90.9	70-130	3.60	20	
Benzo (g,h,i) perylene	0.206	0.020	"	0.200	ND	103	70-130	9.64	20	
Benzo (k) fluoranthene	0.192	0.020	"	0.200	ND	96.2	70-130	0.240	20	
Chrysene	0.195	0.020	"	0.200	0.0006	97.4	70-130	0.994	20	
Dibenz (a,h) anthracene	0.200	0.020	"	0.200	ND	100	70-130	7.94	20	
Fluoranthene	0.244	0.020	"	0.200	0.001	121	70-130	9.58	20	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D1129 - EPA 3580

Matrix Spike Dup (B4D1129-MSD1)	Source: Y404330-01			Prepared: 04/11/2024 Analyzed: 04/11/2024						
Fluorene	0.196	0.020	mg/kg	0.200	ND	98.1	70-130	3.82	20	
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200	ND	103	70-130	8.37	20	
Naphthalene	0.191	0.002	"	0.200	ND	95.4	70-130	2.62	20	
Phenanthrene	0.213	0.020	"	0.200	ND	106	70-130	9.85	20	
Pyrene	0.190	0.020	"	0.200	0.0008	94.4	70-130	15.8	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	170		"	200		85.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**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 B4D1203 - Saturated Paste Metals**

**Blank (B4D1203-BLK1)**

Prepared: 04/12/2024 Analyzed: 04/15/2024

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

**Duplicate (B4D1203-DUP1)**

Source: Y404341-06

Prepared: 04/12/2024 Analyzed: 04/15/2024

Calcium PPM	58.6	10.0	mg/L		53.9			8.41	50	
SAR	ND	0.0100	SAR		0.735				200	
Magnesium PPM	26.8	10.0	mg/L		24.8			7.80	50	
Sodium PPM	30.3	10.0	"		26.0			15.5	50	

**Batch B4D1204 - Saturated Paste Metals**

**Blank (B4D1204-BLK1)**

Prepared: 04/12/2024 Analyzed: 04/15/2024

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

**Duplicate (B4D1204-DUP1)**

Source: Y404346-05

Prepared: 04/12/2024 Analyzed: 04/15/2024

SAR	ND	0.0100	SAR		10.4				200	
Calcium PPM	432	10.0	mg/L		428			0.884	50	
Magnesium PPM	215	10.0	"		223			3.64	50	
Sodium PPM	1030	10.0	"		1070			3.62	50	

**Batch B4D1208 - DTPA Sorbitol Preparation**

**Blank (B4D1208-BLK1)**

Prepared: 04/12/2024 Analyzed: 04/16/2024

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4D1208 - DTPA Sorbitol Preparation</b>										
<b>Blank (B4D1208-BLK1)</b>					Prepared: 04/12/2024 Analyzed: 04/16/2024					
Boron	ND	0.100	mg/L							
<b>Duplicate (B4D1208-DUP1)</b>		<b>Source: Y404341-05</b>			Prepared: 04/12/2024 Analyzed: 04/16/2024					
Boron	1.28	0.0989	mg/L		1.30			1.94	50	
<b>Batch B4D1209 - DTPA Sorbitol Preparation</b>										
<b>Blank (B4D1209-BLK1)</b>					Prepared: 04/12/2024 Analyzed: 04/16/2024					
Boron	ND	0.100	mg/L							
<b>Duplicate (B4D1209-DUP1)</b>		<b>Source: Y404346-04</b>			Prepared: 04/12/2024 Analyzed: 04/16/2024					
Boron	0.0305	0.0998	mg/L		ND				50	

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 Project Number: [none]  
 Project: KMG - PIZ 15-23A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D1213 - Saturated Paste pH/EC**

**Blank (B4D1213-BLK1)**

Prepared: 04/12/2024 Analyzed: 04/12/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4D1213-DUP1)**

**Source: Y404341-06**

Prepared: 04/12/2024 Analyzed: 04/12/2024

pH 8.31 pH Units 8.22 1.09 25

Specific Conductance (EC) 0.688 0.00500 mmhos/cm 0.552 22.0 25

**Batch B4D1214 - Saturated Paste pH/EC**

**Blank (B4D1214-BLK1)**

Prepared: 04/12/2024 Analyzed: 04/12/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4D1214-DUP1)**

**Source: Y404346-05**

Prepared: 04/12/2024 Analyzed: 04/12/2024

pH 8.10 pH Units 8.01 1.12 25

Specific Conductance (EC) 5.63 0.00500 mmhos/cm 5.89 4.47 25

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**Total Metals by 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2598540 - SW846 3060A</b>										
<b>BLANK (1205706929-BLK)</b>					Prepared: 04/18/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	ND	0.390	mg/kg				-			U
<b>LCS (1205706930-BKS)</b>					Prepared: 04/18/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	3.54	0.359	mg/kg	3.59		98.6	80-120			
<b>DUP (1205706953 D)</b>					Source: 663196002 Prepared: 04/18/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	0.109	0.244	mg/kg dry		0.109		0-50	0	50	J
<b>MS (1205706954 S)</b>					Source: 663196002 Prepared: 04/18/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	1.62	0.244	mg/kg dry	2.44	0.109	62	75-125			
<b>DUP (1205706955 D)</b>					Source: 663218002 Prepared: 04/18/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	ND	0.355	mg/kg dry		<0.142		0-50	N/A	50	U
<b>MS (1205706956 S)</b>					Source: 663218002 Prepared: 04/18/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	1.69	0.355	mg/kg dry	3.55	<0.142	47.6	75-125			
<b>ILCS (1205706990-ILCS)</b>					Prepared: 04/18/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	6.56	0.324	mg/kg	6.76		97.1	80-120			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PIZ 15-23A

**Total Metals by 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2597963 - SW846 3060A</b>										
<b>BLANK (1205706019-BLK)</b>					Prepared: 04/16/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	ND	0.380	mg/kg				-			U
<b>LCS (1205706020-BKS)</b>					Prepared: 04/16/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	3.45	0.346	mg/kg	3.46		99.7	80-120			
<b>DUP (1205706021 D)</b>					Source: Y404346-05 Prepared: 04/16/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	ND	0.387	mg/kg dry		<0.155		0-50	N/A	50	U
<b>MS (1205706022 S)</b>					Source: Y404346-05 Prepared: 04/16/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	2.84	0.421	mg/kg dry	4.21	<0.168	66.5	75-125			
<b>DUP (1205706023 D)</b>					Source: 663242003 Prepared: 04/16/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	ND	0.424	mg/kg dry		<0.170		0-50	N/A	50	U
<b>MS (1205706024 S)</b>					Source: 663242003 Prepared: 04/16/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	2.17	0.489	mg/kg dry	4.89	<0.195	43.3	75-125			
<b>ILCS (1205706025-ILCS)</b>					Prepared: 04/16/2024 Analyzed: 04/19/2024					
Hexavalent Chromium	6.08	0.297	mg/kg	6.22		97.7	80-120			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - PIZ 15-23A

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**Notes and Definitions**

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

J Greater than the detection limit but less than the reporting limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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---

Jordan A. Bynon, Project Manager



May 17, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Davis,V. 6-26A

Project Number - [none]

Attached are your analytical results for KMG - Davis,V. 6-26A received by Origins Laboratory, Inc. April 18, 2024. This project is associated with Origins project number Y404515-01.

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, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B02@10'	Y404515-01	Soil	April 18, 2024 12:10	04/18/2024 15:15
WH-N02@8'	Y404515-02	Soil	April 18, 2024 12:12	04/18/2024 15:15
WH-E02@8'	Y404515-03	Soil	April 18, 2024 12:14	04/18/2024 15:15
WH-S02@8'	Y404515-04	Soil	April 18, 2024 12:16	04/18/2024 15:15
WH-W02@5'	Y404515-05	Soil	April 18, 2024 12:18	04/18/2024 15:15
WH-W02@8'	Y404515-06	Soil	April 18, 2024 12:20	04/18/2024 15:15
WH-BG05@3'	Y404515-07	Soil	April 18, 2024 12:30	04/18/2024 15:15
WH-BG05@6'	Y404515-08	Soil	April 18, 2024 12:32	04/18/2024 15:15
WH-BG06@3'	Y404515-09	Soil	April 18, 2024 12:34	04/18/2024 15:15
WH-BG06@6'	Y404515-10	Soil	April 18, 2024 12:36	04/18/2024 15:15

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, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

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

**ORIGINS**  
LABORATORY, INC

**1104515**  
*In Routed*

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page | of |

Client: Eagle Environmental (OH)  
 Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
 Telephone Number: 303-433-0174  
 Email Address: dcoloccia@eagle-environment.com  
 Project Manager: D. Coloccia  
 Project Name: Davis, V. 6-26A  
 Project Number: 56  
 Samples Collected By: SG

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis			Sample Instructions		
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	NaPh.	EC/PH		SAR	Boron
WH-B02 @ 10'	4/14/04	1210	3	X				X						X	* Metals; SIEP
WH-N02 @ 9'		1212	3												Silver, Zinc, Chromium VI
WH-E02 @ 9'		1214	3												Chromium VI
WH-S02 @ 9'		1216	3												
WH-W02 @ 5'		1219	3												Rin Re samples
WH-W02 @ 9'		1220	3												for all
WH-B05 @ 3'		1230	2							X	X				45-1 metals
WH-B05 @ 6'		1232	2												
WH-B06 @ 3'		1234	2												
WH-B06 @ 6'		1236	2												

Relinquished By: [Signature] Date: 4/14/04 Time: KS  
 Received By: [Signature] Date: 4/18/04 Time: 1515  
 Turnaround Time:  24 Hr  48 Hr  72 Hr  Standard

Temp Received: 10 Date Results Needed: 10

Origins Laboratory, Inc.  


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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 1404515

Client: Eagle

Client Project ID: Davis V 6-26A

Checklist Completed by: EHO/STJ

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

Date/time completed: 4/18/12

Airbill #: N/A

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

Cooler Number/Temperature: 1, 10 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: T005

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

EHO  
 Reviewed by (Project Manager)

4/18/12  
 Date/Time Reviewed

Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-B02@10'**

**4/18/2024 12:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404515-01 (Soil)**

**PAH by EPA 8270E**

Naphthalene	ND		0.002	mg/kg	1	B4D1836	04/18/2024	04/18/2024	Ua
-------------	----	--	-------	-------	---	---------	------------	------------	----

Surrogate: Fluorene-d10	98.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	97.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	93.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	107 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.89			pH Units	1	B4D2015	04/20/2024	04/21/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.125		0.00500	mmhos/cm	"	"	"	"	
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**Table 915 metals by EPA 6020B**

Arsenic	0.820		0.263	mg/kg	10	B4D1837	04/18/2024	04/19/2024	
Barium	19.2		9.07	"	"	"	"	"	
Cadmium	ND		0.0907	"	"	"	"	"	
Copper	ND		9.07	"	"	"	"	"	
Lead	2.32		0.907	"	"	"	"	"	
Nickel	1.43		0.907	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Davis, V. 6-26A

**WH-B02@10'**

**4/18/2024 12:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404515-01 (Soil)**

**Table 915 metals by EPA 6020B**

Selenium	ND		0.236	mg/kg	10	B4D1837	04/18/2024	04/19/2024	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-N02@8'**

**4/18/2024 12:12:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404515-02 (Soil)**

**PAH by EPA 8270E**

Naphthalene	ND		0.002	mg/kg	1	B4D1836	04/18/2024	04/18/2024	Ua
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Surrogate: Fluorene-d10	97.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	103 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.7 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.65			pH Units	1	B4D2015	04/20/2024	04/21/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0976		0.00500	mmhos/cm	"	"	"	"	
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**Table 915 metals by EPA 6020B**

Arsenic	0.722		0.262	mg/kg	10	B4D1837	04/18/2024	04/19/2024	
Barium	23.9		9.05	"	"	"	"	"	
Cadmium	ND		0.0905	"	"	"	"	"	
Copper	ND		9.05	"	"	"	"	"	
Lead	1.90		0.905	"	"	"	"	"	
Nickel	1.33		0.905	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Davis, V. 6-26A

**WH-N02@8'**

**4/18/2024 12:12:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404515-02 (Soil)**

**Table 915 metals by EPA 6020B**

Selenium	ND		0.235	mg/kg	10	B4D1837	04/18/2024	04/19/2024	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-E02@8'**

**4/18/2024 12:14:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404515-03 (Soil)**

**PAH by EPA 8270E**

Naphthalene	ND		0.002	mg/kg	1	B4D1836	04/18/2024	04/18/2024	Ua
-------------	----	--	-------	-------	---	---------	------------	------------	----

Surrogate: Fluorene-d10	98.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	93.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.76			pH Units	1	B4D2015	04/20/2024	04/21/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0956		0.00500	mmhos/cm	"	"	"	"	
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**Table 915 metals by EPA 6020B**

Arsenic	0.635		0.264	mg/kg	10	B4D1837	04/18/2024	04/19/2024	
Barium	13.6		9.10	"	"	"	"	"	
Cadmium	ND		0.0910	"	"	"	"	"	
Copper	ND		9.10	"	"	"	"	"	
Lead	1.84		0.910	"	"	"	"	"	
Nickel	0.933		0.910	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Davis, V. 6-26A

**WH-E02@8'**

**4/18/2024 12:14:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404515-03 (Soil)**

**Table 915 metals by EPA 6020B**

Selenium	ND		0.237	mg/kg	10	B4D1837	04/18/2024	04/19/2024	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-S02@8'**

**4/18/2024 12:16:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404515-04 (Soil)**

**PAH by EPA 8270E**

Naphthalene	ND		0.002	mg/kg	1	B4D1836	04/18/2024	04/18/2024	Ua
-------------	----	--	-------	-------	---	---------	------------	------------	----

Surrogate: Fluorene-d10	94.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	99.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.99			pH Units	1	B4D2015	04/20/2024	04/21/2024	
----	------	--	--	----------	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.145		0.00500	mmhos/cm	"	"	"	"	
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**Table 915 metals by EPA 6020B**

Arsenic	0.536		0.244	mg/kg	10	B4D1837	04/18/2024	04/19/2024	
Barium	12.2		8.41	"	"	"	"	"	
Cadmium	ND		0.0841	"	"	"	"	"	
Copper	ND		8.41	"	"	"	"	"	
Lead	1.79		0.841	"	"	"	"	"	
Nickel	1.05		0.841	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Davis, V. 6-26A

**WH-S02@8'**

**4/18/2024 12:16:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404515-04 (Soil)**

**Table 915 metals by EPA 6020B**

Selenium	ND		0.219	mg/kg	10	B4D1837	04/18/2024	04/19/2024	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-W02@5'**

**4/18/2024 12:18:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404515-05 (Soil)**

**PAH by EPA 8270E**

Naphthalene	ND		0.002	mg/kg	1	B4D1836	04/18/2024	04/18/2024	Ua
-------------	----	--	-------	-------	---	---------	------------	------------	----

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	107 %		60-130			"	"	"	
Surrogate: Pyrene-d10	90.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.8 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.37			pH Units	1	B4D2015	04/20/2024	04/21/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.529		0.00500	mmhos/cm	"	"	"	"	
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**Table 915 metals by EPA 6020B**

Arsenic	2.18		0.266	mg/kg	10	B4D1837	04/18/2024	04/19/2024	
Barium	52.4		9.18	"	"	"	"	"	
Cadmium	ND		0.0918	"	"	"	"	"	
Copper	ND		9.18	"	"	"	"	"	
Lead	5.09		0.918	"	"	"	"	"	
Nickel	3.73		0.918	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Davis, V. 6-26A

**WH-W02@5'**

**4/18/2024 12:18:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404515-05 (Soil)**

**Table 915 metals by EPA 6020B**

Selenium	ND		0.239	mg/kg	10	B4D1837	04/18/2024	04/19/2024	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-W02@8'**

**4/18/2024 12:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404515-06 (Soil)**

**PAH by EPA 8270E**

Naphthalene	ND		0.002	mg/kg	1	B4D1836	04/18/2024	04/18/2024	Ua
-------------	----	--	-------	-------	---	---------	------------	------------	----

Surrogate: Fluorene-d10	97.4 %		60-130			"	"	"	
Surrogate: Anthracene-d10	103 %		60-130			"	"	"	
Surrogate: Pyrene-d10	93.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.84			pH Units	1	B4D2015	04/20/2024	04/21/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0867		0.00500	mmhos/cm	"	"	"	"	
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**Table 915 metals by EPA 6020B**

Arsenic	0.653		0.263	mg/kg	10	B4D1837	04/18/2024	04/19/2024	
Barium	14.5		9.06	"	"	"	"	"	
Cadmium	ND		0.0906	"	"	"	"	"	
Copper	ND		9.06	"	"	"	"	"	
Lead	2.10		0.906	"	"	"	"	"	
Nickel	1.14		0.906	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Davis, V. 6-26A

**WH-W02@8'**

**4/18/2024 12:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404515-06 (Soil)**

**Table 915 metals by EPA 6020B**

Selenium	ND		0.236	mg/kg	10	B4D1837	04/18/2024	04/19/2024	
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Origins Laboratory, Inc.



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-BG05@3'**

**4/18/2024 12:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404515-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0986	mg/L	1	B4D1904	04/19/2024	04/23/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.738		0.499	meq/L	10	[CALC]	04/19/2024	04/24/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.36		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.10			pH Units	1	B4D1914	04/19/2024	04/19/2024	
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**SAR by 20B Saturated Paste**

SAR	1.89		0.0100	SAR	1	B4D1909	04/19/2024	04/22/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.292		0.00500	mmhos/cm	1	B4D1914	04/19/2024	04/19/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	0.635		0.253	mg/kg	10	B4D1837	04/18/2024	04/19/2024	
Barium	56.7		8.73	"	"	"	"	"	
Cadmium	ND		0.0873	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-BG05@3'**

**4/18/2024 12:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404515-07 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.73	mg/kg	10	B4D1837	04/18/2024	04/19/2024	
Lead	<b>1.80</b>		0.873	"	"	"	"	"	
Nickel	<b>1.25</b>		0.873	"	"	"	"	"	
Selenium	ND		0.227	"	"	"	"	"	
Silver	ND		0.0873	"	"	"	"	"	
Zinc	ND		32.3	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.0878	0.219	mg/kg dry	1	2609801	05/13/2024	05/14/2024	U
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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-BG05@6'**

**4/18/2024 12:32:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y404515-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B4D1905	04/19/2024	04/23/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.737	0.499	meq/L	10	[CALC]	04/19/2024	04/24/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.94	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.29		pH Units	1	B4D1914	04/19/2024	04/19/2024
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**SAR by 20B Saturated Paste**

SAR	2.67	0.0100	SAR	1	B4D1909	04/19/2024	04/22/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.316	0.00500	mmhos/cm	1	B4D1914	04/19/2024	04/19/2024
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**Table 915 metals by EPA 6020B**

Arsenic	0.914	0.252	mg/kg	10	B4D1837	04/18/2024	04/19/2024
Barium	18.8	8.70	"	"	"	"	"
Cadmium	ND	0.0870	"	"	"	"	"

Origins Laboratory, Inc.



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 8000 W 44th Ave  
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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-BG05@6'**

**4/18/2024 12:32:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404515-08 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.70	mg/kg	10	B4D1837	04/18/2024	04/19/2024	
Lead	<b>2.14</b>		0.870	"	"	"	"	"	
Nickel	<b>1.23</b>		0.870	"	"	"	"	"	
Selenium	ND		0.226	"	"	"	"	"	
Silver	ND		0.0870	"	"	"	"	"	
Zinc	ND		32.2	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.112	0.280	mg/kg dry	1	2609801	05/13/2024	05/14/2024	U
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Dan Coloccia  
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 Project: KMG - Davis, V. 6-26A

**WH-BG06@3'**

**4/18/2024 12:34:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404515-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B4D1905	04/19/2024	04/23/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	04/19/2024	04/24/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.27		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.21			pH Units	1	B4D1914	04/19/2024	04/19/2024	
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**SAR by 20B Saturated Paste**

SAR	6.64		0.0100	SAR	1	B4D1909	04/19/2024	04/22/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.432		0.00500	mmhos/cm	1	B4D1914	04/19/2024	04/19/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	0.760		0.276	mg/kg	10	B4D1837	04/18/2024	04/19/2024	
Barium	25.4		9.53	"	"	"	"	"	
Cadmium	ND		0.0953	"	"	"	"	"	

Origins Laboratory, Inc.



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 Project: KMG - Davis, V. 6-26A

**WH-BG06@3'**

**4/18/2024 12:34:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404515-09 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.53	mg/kg	10	B4D1837	04/18/2024	04/19/2024	
Lead	<b>1.87</b>		0.953	"	"	"	"	"	
Nickel	<b>1.40</b>		0.953	"	"	"	"	"	
Selenium	ND		0.248	"	"	"	"	"	
Silver	ND		0.0953	"	"	"	"	"	
Zinc	ND		35.3	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.116	0.290	mg/kg dry	1	2609801	05/13/2024	05/14/2024	U
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Dan Coloccia  
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 Project: KMG - Davis, V. 6-26A

**WH-BG06@6'**

**4/18/2024 12:36:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404515-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0989	mg/L	1	B4D1905	04/19/2024	04/23/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	04/19/2024	04/24/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.83		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.18			pH Units	1	B4D1914	04/19/2024	04/19/2024	
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**SAR by 20B Saturated Paste**

SAR	4.92		0.0100	SAR	1	B4D1909	04/19/2024	04/22/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.434		0.00500	mmhos/cm	1	B4D1914	04/19/2024	04/19/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	0.845		0.253	mg/kg	10	B4D1837	04/18/2024	04/19/2024	
Barium	14.3		8.72	"	"	"	"	"	
Cadmium	ND		0.0872	"	"	"	"	"	

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

**WH-BG06@6'**

**4/18/2024 12:36:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404515-10 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.72	mg/kg	10	B4D1837	04/18/2024	04/19/2024	
Lead	<b>2.15</b>		0.872	"	"	"	"	"	
Nickel	<b>1.12</b>		0.872	"	"	"	"	"	
Selenium	ND		0.227	"	"	"	"	"	
Silver	ND		0.0872	"	"	"	"	"	
Zinc	ND		32.3	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.125	0.313	mg/kg dry	1	2609801	05/13/2024	05/14/2024	U
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 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D1837 - EPA 3050B**

**Blank (B4D1837-BLK1)**

Prepared: 04/18/2024 Analyzed: 04/19/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

**LCS (B4D1837-BS1)**

Prepared: 04/18/2024 Analyzed: 04/22/2024

Arsenic	5.44	0.290	mg/kg	5.00		109	80-120			
Barium	549	10.0	"	500		110	80-120			
Cadmium	5.26	0.100	"	5.00		105	80-120			
Copper	56.4	10.0	"	50.0		113	80-120			
Lead	5.25	1.00	"	5.00		105	80-120			
Nickel	5.68	1.00	"	5.00		114	80-120			
Selenium	10.5	0.260	"	9.50		110	80-120			
Silver	5.26	0.100	"	5.00		105	80-120			
Zinc	57.3	37.0	"	50.0		115	80-120			

**Matrix Spike (B4D1837-MS1)**

Source: Y404514-03

Prepared: 04/18/2024 Analyzed: 04/19/2024

Arsenic	9.98	0.277	mg/kg	4.77	4.15	122	75-125			
Barium	663	9.54	"	477	120	114	75-125			
Cadmium	5.73	0.0954	"	4.77	0.0837	118	75-125			
Copper	68.0	9.54	"	47.7	11.1	119	75-125			
Lead	14.7	0.954	"	4.77	9.25	114	75-125			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D1837 - EPA 3050B**

**Matrix Spike (B4D1837-MS1)**

**Source: Y404514-03**

Prepared: 04/18/2024 Analyzed: 04/19/2024

Nickel	16.5	0.954	mg/kg	4.77	11.0	115	75-125			
Selenium	10.2	0.248	"	9.07	0.107	112	75-125			
Silver	5.85	0.0954	"	4.77	0.0304	122	75-125			
Zinc	102	35.3	"	47.7	45.6	118	75-125			

**Matrix Spike Dup (B4D1837-MSD1)**

**Source: Y404514-03**

Prepared: 04/18/2024 Analyzed: 04/19/2024

Arsenic	9.21	0.244	mg/kg	4.21	4.15	120	75-125	7.99	20	
Barium	652	8.42	"	421	120	127	75-125	1.61	20	QM-07
Cadmium	5.24	0.0842	"	4.21	0.0837	123	75-125	8.89	20	
Copper	62.9	8.42	"	42.1	11.1	123	75-125	7.72	20	
Lead	14.1	0.842	"	4.21	9.25	115	75-125	4.33	20	
Nickel	15.8	0.842	"	4.21	11.0	116	75-125	3.77	20	
Selenium	9.30	0.219	"	8.00	0.107	115	75-125	9.62	20	
Silver	5.38	0.0842	"	4.21	0.0304	127	75-125	8.45	20	QM-07
Zinc	95.9	31.1	"	42.1	45.6	120	75-125	6.04	20	

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D1836 - EPA 3580**

**Blank (B4D1836-BLK1)**

Prepared: 04/18/2024 Analyzed: 04/18/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	190		ug/kg	200		94.8	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	180		"	200		89.7	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		111	60-130			

**LCS (B4D1836-BS1)**

Prepared: 04/18/2024 Analyzed: 04/18/2024

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200		94.6	70-130			
2-Methylnaphthalene	0.184	0.002	"	0.200		92.1	70-130			
Acenaphthene	0.182	0.020	"	0.200		90.9	70-130			
Anthracene	0.190	0.020	"	0.200		94.8	70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D1836 - EPA 3580**

**LCS (B4D1836-BS1)**

Prepared: 04/18/2024 Analyzed: 04/18/2024

Benzo (a) anthracene	0.180	0.005	mg/kg	0.200		90.2	70-130			
Benzo (a) pyrene	0.214	0.020	"	0.200		107	70-130			
Benzo (b) fluoranthene	0.209	0.020	"	0.200		105	70-130			
Benzo (g,h,i) perylene	0.220	0.020	"	0.200		110	70-130			
Benzo (k) fluoranthene	0.205	0.020	"	0.200		103	70-130			
Chrysene	0.192	0.020	"	0.200		96.2	70-130			
Dibenz (a,h) anthracene	0.230	0.020	"	0.200		115	70-130			
Fluoranthene	0.180	0.020	"	0.200		90.0	70-130			
Fluorene	0.189	0.020	"	0.200		94.3	70-130			
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200		101	70-130			
Naphthalene	0.191	0.002	"	0.200		95.3	70-130			
Phenanthrene	0.188	0.020	"	0.200		94.1	70-130			
Pyrene	0.180	0.020	"	0.200		89.8	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		99.6	60-130			
Surrogate: Pyrene-d10	190		"	200		96.3	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		112	60-130			

**Matrix Spike (B4D1836-MS1)**

Source: Y404510-01

Prepared: 04/18/2024 Analyzed: 04/18/2024

1-Methylnaphthalene	0.215	0.002	mg/kg	0.200	ND	108	70-130			
2-Methylnaphthalene	0.216	0.002	"	0.200	0.001	107	70-130			
Acenaphthene	0.198	0.020	"	0.200	ND	99.0	70-130			
Anthracene	0.196	0.020	"	0.200	ND	97.8	70-130			
Benzo (a) anthracene	0.183	0.005	"	0.200	0.0007	91.4	70-130			
Benzo (a) pyrene	0.203	0.020	"	0.200	ND	102	70-130			
Benzo (b) fluoranthene	0.199	0.020	"	0.200	0.0008	99.2	70-130			
Benzo (g,h,i) perylene	0.206	0.020	"	0.200	0.0007	103	70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D1836 - EPA 3580**

<b>Matrix Spike (B4D1836-MS1)</b>		<b>Source: Y404510-01</b>			<b>Prepared: 04/18/2024 Analyzed: 04/18/2024</b>					
Benzo (k) fluoranthene	0.196	0.020	mg/kg	0.200	0.0008	97.5	70-130			
Chrysene	0.193	0.020	"	0.200	0.0003	96.4	70-130			
Dibenz (a,h) anthracene	0.213	0.020	"	0.200	0.0008	106	70-130			
Fluoranthene	0.168	0.020	"	0.200	0.0006	83.5	70-130			
Fluorene	0.187	0.020	"	0.200	ND	93.5	70-130			
Indeno (1,2,3-cd) pyrene	0.199	0.020	"	0.200	0.002	98.9	70-130			
Naphthalene	0.192	0.002	"	0.200	ND	96.1	70-130			
Phenanthrene	0.195	0.020	"	0.200	ND	97.7	70-130			
Pyrene	0.177	0.020	"	0.200	ND	88.4	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.9	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	190		"	200		95.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

<b>Matrix Spike Dup (B4D1836-MSD1)</b>		<b>Source: Y404510-01</b>			<b>Prepared: 04/18/2024 Analyzed: 04/18/2024</b>					
1-Methylnaphthalene	0.179	0.002	mg/kg	0.200	ND	89.4	70-130	18.5	20	
2-Methylnaphthalene	0.177	0.002	"	0.200	0.001	88.0	70-130	19.5	20	
Acenaphthene	0.180	0.020	"	0.200	ND	90.2	70-130	9.40	20	
Anthracene	0.172	0.020	"	0.200	ND	85.8	70-130	13.0	20	
Benzo (a) anthracene	0.179	0.005	"	0.200	0.0007	89.4	70-130	2.21	20	
Benzo (a) pyrene	0.206	0.020	"	0.200	ND	103	70-130	1.16	20	
Benzo (b) fluoranthene	0.200	0.020	"	0.200	0.0008	99.3	70-130	0.112	20	
Benzo (g,h,i) perylene	0.203	0.020	"	0.200	0.0007	101	70-130	1.55	20	
Benzo (k) fluoranthene	0.202	0.020	"	0.200	0.0008	101	70-130	3.33	20	
Chrysene	0.183	0.020	"	0.200	0.0003	91.2	70-130	5.57	20	
Dibenz (a,h) anthracene	0.211	0.020	"	0.200	0.0008	105	70-130	1.25	20	
Fluoranthene	0.171	0.020	"	0.200	0.0006	85.4	70-130	2.33	20	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Davis, V. 6-26A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D1836 - EPA 3580**

<b>Matrix Spike Dup (B4D1836-MSD1)</b>	<b>Source: Y404510-01</b>			<b>Prepared: 04/18/2024 Analyzed: 04/18/2024</b>						
Fluorene	0.170	0.020	mg/kg	0.200	ND	85.2	70-130	9.32	20	
Indeno (1,2,3-cd) pyrene	0.188	0.020	"	0.200	0.002	93.4	70-130	5.70	20	
Naphthalene	0.180	0.002	"	0.200	ND	90.1	70-130	6.45	20	
Phenanthrene	0.182	0.020	"	0.200	ND	90.9	70-130	7.25	20	
Pyrene	0.172	0.020	"	0.200	ND	86.0	70-130	2.72	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.6	60-130			
Surrogate: Anthracene-d10	200		"	200		98.6	60-130			
Surrogate: Pyrene-d10	180		"	200		92.2	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		110	60-130			

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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
<b>Batch B4D1904 - DTPA Sorbitol Preparation</b>										
<b>Blank (B4D1904-BLK1)</b>					Prepared: 04/19/2024 Analyzed: 04/23/2024					
Boron	ND	0.100	mg/L							
<b>Duplicate (B4D1904-DUP1)</b>					<b>Source: Y404510-02</b> Prepared: 04/19/2024 Analyzed: 04/23/2024					
Boron	0.367	0.0990	mg/L		0.384			4.44	50	
<b>Batch B4D1905 - DTPA Sorbitol Preparation</b>										
<b>Blank (B4D1905-BLK1)</b>					Prepared: 04/19/2024 Analyzed: 04/23/2024					
Boron	ND	0.100	mg/L							
<b>Duplicate (B4D1905-DUP1)</b>					<b>Source: Y404515-08</b> Prepared: 04/19/2024 Analyzed: 04/23/2024					
Boron	0.0418	0.0986	mg/L		0.0622			39.2	50	
<b>Batch B4D1909 - Saturated Paste Metals</b>										
<b>Blank (B4D1909-BLK1)</b>					Prepared: 04/19/2024 Analyzed: 04/22/2024					
Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							
<b>Duplicate (B4D1909-DUP1)</b>					<b>Source: Y404510-05</b> Prepared: 04/19/2024 Analyzed: 04/22/2024					
Calcium PPM	184	10.0	mg/L		151			19.7	50	
SAR	ND	0.0100	SAR		5.41				200	
Magnesium PPM	619	10.0	mg/L		558			10.3	50	
Sodium PPM	707	10.0	"		643			9.56	50	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D1914 - Saturated Paste pH/EC**

**Blank (B4D1914-BLK1)**

Prepared: 04/19/2024 Analyzed: 04/19/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4D1914-DUP1)**

**Source: Y404510-05**

Prepared: 04/19/2024 Analyzed: 04/19/2024

pH 8.29 pH Units 8.28 0.121 25

Specific Conductance (EC) 5.48 0.00500 mmhos/cm 5.06 7.86 25

**Batch B4D2015 - Saturated Paste pH/EC**

**Blank (B4D2015-BLK1)**

Prepared: 04/20/2024 Analyzed: 04/21/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4D2015-DUP1)**

**Source: Y404479-01**

Prepared: 04/20/2024 Analyzed: 04/21/2024

pH 8.52 pH Units 8.51 0.117 25

Specific Conductance (EC) 0.291 0.00500 mmhos/cm 0.285 2.22 25

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**Total Metals by 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2609801 - SW846 3060A</b>										
<b>BLANK (1205729069-BLK)</b>					Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	ND	0.242	mg/kg				-			U
<b>LCS (1205729070-BKS)</b>					Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	3.06	0.297	mg/kg	2.97		103	80-120			
<b>DUP (1205729071 D)</b>					Source: 666556001 Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	ND	0.327	mg/kg dry		<0.131		0-50	N/A	50	U
<b>MS (1205729072 S)</b>					Source: 666556001 Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	2.76	0.327	mg/kg dry	3.27	<0.131	81.8	75-125			
<b>DUP (1205729073 D)</b>					Source: 666603001 Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	ND	0.350	mg/kg dry		<0.140		0-50	N/A	50	U
<b>MS (1205729074 S)</b>					Source: 666603001 Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	2.49	0.350	mg/kg dry	3.50	<0.140	69.6	75-125			
<b>ILCS (1205729075-ILCS)</b>					Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	5.76	0.268	mg/kg	5.57			80-120			

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Project: KMG - Davis, V. 6-26A

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**Notes and Definitions**

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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Jordan A. Bynon, Project Manager