



Eagle Environmental Consulting, LLC  
Dan Coloccia  
8000 W 44th Ave

November 13, 2024

Wheat Ridge CO 80033

Project Name - KMG - Canepa 6-13

Project Number - [none]

Attached are your analytical results for KMG - Canepa 6-13 received by Origins Laboratory November 12, 2024. This project is associated with Origins project number E4K0291-01.

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  
303.433.1322  
projectmanager@originslab.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 - Canepa 6-13

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B35@4'	E4K0291-01	Soil	November 12, 2024 13:28	11/12/2024 15:09

Origins Laboratory



Jen Pellegrini, Project Manager

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Canepa 6-13

# ORIGINS

LABORATORY INC

ORIGINS WORK ORDER #

6410291

Page 1 of 1

Client: Eagle Environmental (ox)  
 Address: 8000 W 44th Ave  
 Project Manager: D. Coloccia  
 Key: W=Water  
 Telephone Number: Wheat Ridge CO 80033  
 Project Number: Canepa 6-13  
 Collected By: DA  
 GW=Groundwater  
 Email Address: dan@eagle-enviro.com  
 Invoice/Billing Info: In-Hal  
 SW=Surface Water  
 WW=Waste Water  
 L=Liquid

S=Soil | SO=Soil | O=Oil | A=Air | G=Gas | UNP=Unpres | HCl= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date	Time	# of Containers	Matrix Preservative	Analysis				Comments	
						Sampled	Sampled				
1	FL-835 e4	11/12/14	15:28	3	5 UNP						
2											
3											
4											
5											
6											
7											
8											
9											
10											

Relinquished By: DA Date: 11/12/14 Time: 15:28  
 Received By: DA Date: 11/24/14 Time: 15:28  
 Requisitioned By: DA Date: 11/12/14 Time: 15:28

For Lab Sample Receiving Only:  
 Turnaround Time:  SAME DAY  24 Hr  48 Hr  72 Hr  
 Received On Ice?  Yes  No

Origins Laboratory



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Canepa 6-13

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: E440291 Client: Eagle  
 Client Project ID: Canepa 6-13  
 Checklist Completed by: SHD US Shipped Via: HO  
 Date/time completed: 11/12/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 B.S °C  °C  °C  °C (Describe)  
 Thermometer ID: 7007

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? 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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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.

Reviewed by (Project Manager) SHD Date/Time Reviewed 11/12/24

Origins Laboratory

*Jen Pellegrini*

Jen Pellegrini, Project Manager

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Canepa 6-13

**FL-B35@4'**

**11/12/2024 1:28:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
 E4K0291-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K1233	11/12/2024	11/13/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K1234	11/12/2024	11/13/2024	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	114 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.1 %		70-130			"	"	"	

**Table 915 metals by EPA 6020B**

Origins Laboratory



Jen Pellegrini, Project Manager

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 Project: KMG - Canepa 6-13

FL-B35@4'

11/12/2024 1:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
 E4K0291-01 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	6.97		0.273	mg/kg	10	B4K1235	11/12/2024	11/13/2024	
Barium	134		9.42	"	"	"	"	"	
Cadmium	0.149		0.0942	"	"	"	"	"	
Copper	ND		9.42	"	"	"	"	"	U
Lead	8.56		0.942	"	"	"	"	"	
Nickel	12.1		0.942	"	"	"	"	"	
Selenium	0.326		0.245	"	"	"	"	"	
Silver	ND		0.0942	"	"	"	"	"	U
Zinc	40.8		34.9	"	"	"	"	"	

Origins Laboratory



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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4K1233 - EPA 3550B</b>										
<b>Blank (B4K1233-BLK1)</b>										
					Prepared: 11/12/2024 Analyzed: 11/12/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		91.7	50-150			

Origins Laboratory



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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K1233 - EPA 3550B**

**LCS (B4K1233-BS1)**

Prepared: 11/12/2024 Analyzed: 11/12/2024

Diesel (C10-C28)	921	50.0	mg/kg	1000		92.1	70-130			
Residual Range Organics (C28-C40)	991	200	"	1000		99.1	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.4	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K1233 - EPA 3550B**

<b>Matrix Spike (B4K1233-MS1)</b>	<b>Source: E4K0287-15</b>			Prepared: 11/12/2024 Analyzed: 11/12/2024						
Diesel (C10-C28)	896	50.0	mg/kg	1000	ND	89.6	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	165	86.7	70-130			
Surrogate: o-Terphenyl	39		"	49.8		78.1	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4K1233 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4K1233-MSD1)</b>					<b>Source: E4K0287-15</b>					Prepared: 11/12/2024 Analyzed: 11/12/2024
Diesel (C10-C28)	898	50.0	mg/kg	1000	ND	89.8	70-130	0.292	35	
Residual Range Organics (C28-C40)	1040	200	"	1000	165	87.1	70-130	0.355	35	
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K1234 - EPA 5030 (soil)**

**Blank (B4K1234-BLK1)**

Prepared: 11/12/2024 Analyzed: 11/12/2024

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	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	100		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	96.6		70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1234 - EPA 5030 (soil)

**LCS (B4K1234-BS1)**

Prepared: 11/12/2024 Analyzed: 11/12/2024

1,2,4-Trimethylbenzene	0.0952	0.00200	mg/kg	0.100		95.2	70-130			
1,3,5-Trimethylbenzene	0.0953	0.00200	"	0.100		95.3	70-130			
Benzene	0.0944	0.00200	"	0.100		94.4	70-130			
Ethylbenzene	0.0925	0.00200	"	0.100		92.5	70-130			
Naphthalene	0.106	0.00380	"	0.100		106	70-130			
Toluene	0.0912	0.00200	"	0.100		91.2	70-130			
o-Xylene	0.0918	0.00200	"	0.100		91.8	70-130			
m,p-Xylene	0.185	0.00400	"	0.200		92.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1234 - EPA 5030 (soil)

Matrix Spike (B4K1234-MS1)	Source: E4K0287-15			Prepared: 11/12/2024 Analyzed: 11/12/2024						
1,2,4-Trimethylbenzene	0.0927	0.00200	mg/kg	0.100	ND	92.7	70-130			
1,3,5-Trimethylbenzene	0.0928	0.00200	"	0.100	ND	92.8	70-130			
Benzene	0.0954	0.00200	"	0.100	ND	95.4	70-130			
Ethylbenzene	0.0922	0.00200	"	0.100	ND	92.2	70-130			
Naphthalene	0.104	0.00380	"	0.100	ND	104	70-130			
Toluene	0.0910	0.00200	"	0.100	ND	91.0	70-130			
o-Xylene	0.0925	0.00200	"	0.100	ND	92.5	70-130			
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Project Number: [none]  
Project: KMG - Canepa 6-13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4K1234 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B4K1234-MSD1)</b>			<b>Source: E4K0287-15</b>			Prepared: 11/12/2024 Analyzed: 11/12/2024				
1,2,4-Trimethylbenzene	0.0849	0.00200	mg/kg	0.100	ND	84.9	70-130	8.74	20	
1,3,5-Trimethylbenzene	0.0853	0.00200	"	0.100	ND	85.3	70-130	8.47	20	
Benzene	0.0926	0.00200	"	0.100	ND	92.6	70-130	2.92	20	
Ethylbenzene	0.0877	0.00200	"	0.100	ND	87.7	70-130	5.03	20	
Naphthalene	0.0966	0.00380	"	0.100	ND	96.6	70-130	6.99	20	
Toluene	0.0875	0.00200	"	0.100	ND	87.5	70-130	3.92	20	
o-Xylene	0.0886	0.00200	"	0.100	ND	88.6	70-130	4.35	20	
m,p-Xylene	0.176	0.00400	"	0.200	ND	88.2	70-130	4.54	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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

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**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K1235 - EPA 3050B**

**Blank (B4K1235-BLK1)**

Prepared: 11/12/2024 Analyzed: 11/13/2024

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

**LCS (B4K1235-BS1)**

Prepared: 11/12/2024 Analyzed: 11/13/2024

Arsenic	5.28	0.290	mg/kg	5.00		106	80-120
Barium	518	10.0	"	500		104	80-120
Cadmium	5.21	0.100	"	5.00		104	80-120
Copper	51.0	10.0	"	50.0		102	80-120
Lead	5.07	1.00	"	5.00		101	80-120
Nickel	5.36	1.00	"	5.00		107	80-120
Selenium	4.89	0.260	"	5.00		97.7	80-120
Silver	5.32	0.100	"	5.00		106	80-120
Zinc	50.7	37.0	"	50.0		101	80-120

**Matrix Spike (B4K1235-MS1)**

Source: E4K0291-01

Prepared: 11/12/2024 Analyzed: 11/13/2024

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K1235 - EPA 3050B**

<b>Matrix Spike (B4K1235-MS1)</b>		<b>Source: E4K0291-01</b>			Prepared: 11/12/2024 Analyzed: 11/13/2024					
Arsenic	10.2	0.250	mg/kg	4.31	6.97	75.6	75-125			
Barium	597	8.63	"	431	134	107	75-125			
Cadmium	4.57	0.0863	"	4.31	0.149	103	75-125			
Copper	54.7	8.63	"	43.1	9.32	105	75-125			
Lead	13.5	0.863	"	4.31	8.56	114	75-125			
Nickel	17.1	0.863	"	4.31	12.1	117	75-125			
Selenium	4.58	0.224	"	4.31	0.326	98.6	75-125			
Silver	4.52	0.0863	"	4.31	0.0273	104	75-125			
Zinc	85.8	31.9	"	43.1	40.8	104	75-125			
<b>Matrix Spike Dup (B4K1235-MSD1)</b>		<b>Source: E4K0291-01</b>			Prepared: 11/12/2024 Analyzed: 11/13/2024					
Arsenic	16.0	0.280	mg/kg	4.83	6.97	186	75-125	43.7	20	QM-07, QR-DUP
Barium	600	9.66	"	483	134	96.6	75-125	0.563	20	
Cadmium	4.75	0.0966	"	4.83	0.149	95.2	75-125	3.89	20	
Copper	54.5	9.66	"	48.3	9.32	93.5	75-125	0.379	20	
Lead	13.9	0.966	"	4.83	8.56	111	75-125	3.25	20	
Nickel	16.6	0.966	"	4.83	12.1	94.1	75-125	2.85	20	
Selenium	4.87	0.251	"	4.83	0.326	94.0	75-125	6.13	20	
Silver	4.64	0.0966	"	4.83	0.0273	95.6	75-125	2.67	20	
Zinc	88.3	35.8	"	48.3	40.8	98.3	75-125	2.85	20	

Origins Laboratory



Jen Pellegrini, Project Manager

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Canepa 6-13

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### Notes and Definitions

U Sample is Non-Detect.

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

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

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



Jen Pellegrini, Project Manager

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