



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

November 05, 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 04, 2024. This project is associated with Origins project number E4K0059-01.

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
WH-BG09@3'	E4K0059-01	Soil	November 4, 2024 11:50	11/04/2024 17:10
WH-BG09@6'	E4K0059-02	Soil	November 4, 2024 11:52	11/04/2024 17:10
WH-BG10@3'	E4K0059-03	Soil	November 4, 2024 12:00	11/04/2024 17:10
WH-BG10@6'	E4K0059-04	Soil	November 4, 2024 12:01	11/04/2024 17:10
WH-BG11@3'	E4K0059-05	Soil	November 4, 2024 12:06	11/04/2024 17:10
WH-BG11@6'	E4K0059-06	Soil	November 4, 2024 12:07	11/04/2024 17:10
WH-BG12@3'	E4K0059-07	Soil	November 4, 2024 12:14	11/04/2024 17:10
WH-BG12@6'	E4K0059-08	Soil	November 4, 2024 12:15	11/04/2024 17:10

Origins Laboratory



Jen Pellegrini, 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 - Canepa 6-13

ORIGINS

LABORATORY LLC

ORIGINS WORK ORDER #

6460059

Page 1 of 1

Client: Eagle Environmental (en)
 Address: 8000 W 44th Ave

Project Manager: D. Coloccia
 Project Name: Canepa 6-13

Key:

Project Number:

W = Water

Telephone Number: 303-433-0479

Collected By:

GW=Groundwater

Email Address: d.coloccia@eagle-enviro.com

Invoice/Billing Info:

SW=Surface Water

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

WW=Waste Water
 L=Liquid

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis					Comments
							U	H	A	S	W	
1	WHT-B60905	01/14/14	11:50	2	S	UNP	X	X	X	X	X	
2	WHT-B60906		11:52				X	X	X	X	X	
3	WHT-B61003		12:00				X	X	X	X	X	
4	WHT-B61006		12:01				X	X	X	X	X	
5	WHT-B61005		12:06				X	X	X	X	X	
6	WHT-B61106		12:07				X	X	X	X	X	
7	WHT-B61205		12:14				X	X	X	X	X	
8	WHT-B61206		12:15				X	X	X	X	X	
9												
10												

Relinquished By: Date: 11/4/14 Time: 1710
 Received By: Date: 11/4/14 Time: 1710
 Temp Received: 4.9 Received On Ice? Yes No

Origins Laboratory

Jefe Pellegrini

Jen Pellegrini, 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 - Canepa 6-13

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: E4K0059

Client: Eagle

Client Project ID: Canepa

Checklist Completed by: JPK

Shipped Via: HD

Date/time completed: 11/14/14

(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, 49 °c / _____ °c / _____ °c (Describe)

Thermometer ID: 1007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			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 ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JPK

Date/Time Reviewed 11/14/14

Origins Laboratory



Jen Pellegrini, 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 - Canepa 6-13

WH-BG09@3'

11/4/2024 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0059-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.52		0.263	mg/kg	10	B4K0440	11/04/2024	11/05/2024	
Barium	139		9.09	"	"	"	"	"	
Cadmium	0.154		0.0909	"	"	"	"	"	
Copper	11.0		9.09	"	"	"	"	"	
Lead	9.45		0.909	"	"	"	"	"	
Nickel	12.4		0.909	"	"	"	"	"	
Selenium	0.256		0.236	"	"	"	"	"	
Silver	ND		0.0909	"	"	"	"	"	U
Zinc	41.1		33.6	"	"	"	"	"	

Origins Laboratory



Jen Pellegrini, 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 - Canepa 6-13

WH-BG09@6'

11/4/2024 11:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0059-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	8.30		0.260	mg/kg	10	B4K0440	11/04/2024	11/05/2024	
Barium	111		8.96	"	"	"	"	"	
Cadmium	ND		0.0896	"	"	"	"	"	U
Copper	10.2		8.96	"	"	"	"	"	
Lead	13.9		0.896	"	"	"	"	"	
Nickel	13.0		0.896	"	"	"	"	"	
Selenium	ND		0.233	"	"	"	"	"	U
Silver	ND		0.0896	"	"	"	"	"	U
Zinc	54.3		33.1	"	"	"	"	"	

Origins Laboratory



Jen Pellegrini, 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 - Canepa 6-13

WH-BG10@3'

11/4/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0059-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.84		0.249	mg/kg	10	B4K0440	11/04/2024	11/05/2024	
Barium	164		8.58	"	"	"	"	"	
Cadmium	0.120		0.0858	"	"	"	"	"	
Copper	ND		8.58	"	"	"	"	"	U
Lead	9.02		0.858	"	"	"	"	"	
Nickel	9.21		0.858	"	"	"	"	"	
Selenium	0.224		0.223	"	"	"	"	"	
Silver	ND		0.0858	"	"	"	"	"	U
Zinc	37.0		31.8	"	"	"	"	"	

Origins Laboratory



Jen Pellegrini, 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 - Canepa 6-13

WH-BG10@6'

11/4/2024 12:01:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0059-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.63		0.256	mg/kg	10	B4K0440	11/04/2024	11/05/2024	
Barium	153		8.84	"	"	"	"	"	
Cadmium	0.135		0.0884	"	"	"	"	"	
Copper	ND		8.84	"	"	"	"	"	U
Lead	9.13		0.884	"	"	"	"	"	
Nickel	11.6		0.884	"	"	"	"	"	
Selenium	0.230		0.230	"	"	"	"	"	
Silver	ND		0.0884	"	"	"	"	"	U
Zinc	40.8		32.7	"	"	"	"	"	

Origins Laboratory



Jen Pellegrini, 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 - Canepa 6-13

WH-BG11@3'

11/4/2024 12:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0059-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	8.73		0.251	mg/kg	10	B4K0447	11/04/2024	11/05/2024	
Barium	85.7		8.64	"	"	"	"	"	
Cadmium	ND		0.0864	"	"	"	"	"	U
Copper	9.02		8.64	"	"	"	"	"	
Lead	10.3		0.864	"	"	"	"	"	
Nickel	10.8		0.864	"	"	"	"	"	
Selenium	0.233		0.225	"	"	"	"	"	
Silver	ND		0.0864	"	"	"	"	"	U
Zinc	48.8		32.0	"	"	"	"	"	

Origins Laboratory



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 8000 W 44th Ave
 Wheat Ridge CO 80033

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

WH-BG11@6'

11/4/2024 12:07:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0059-06 (Soil)

Table 915 metals by EPA 6020B

Arsenic	8.14		0.245	mg/kg	10	B4K0447	11/04/2024	11/05/2024	
Barium	111		8.43	"	"	"	"	"	
Cadmium	0.0860		0.0843	"	"	"	"	"	
Copper	10.3		8.43	"	"	"	"	"	
Lead	10.6		0.843	"	"	"	"	"	
Nickel	11.0		0.843	"	"	"	"	"	
Selenium	0.272		0.219	"	"	"	"	"	
Silver	ND		0.0843	"	"	"	"	"	U
Zinc	50.6		31.2	"	"	"	"	"	

Origins Laboratory



Jen Pellegrini, 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 - Canepa 6-13

WH-BG12@3'

11/4/2024 12:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0059-07 (Soil)

Table 915 metals by EPA 6020B

Arsenic	7.05		0.249	mg/kg	10	B4K0447	11/04/2024	11/05/2024	
Barium	176		8.60	"	"	"	"	"	
Cadmium	0.181		0.0860	"	"	"	"	"	
Copper	13.3		8.60	"	"	"	"	"	
Lead	12.0		0.860	"	"	"	"	"	
Nickel	15.6		0.860	"	"	"	"	"	
Selenium	0.259		0.224	"	"	"	"	"	
Silver	ND		0.0860	"	"	"	"	"	U
Zinc	52.8		31.8	"	"	"	"	"	

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

WH-BG12@6'

11/4/2024 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0059-08 (Soil)

Table 915 metals by EPA 6020B

Arsenic	6.55		0.252	mg/kg	10	B4K0447	11/04/2024	11/05/2024	
Barium	177		8.69	"	"	"	"	"	
Cadmium	0.168		0.0869	"	"	"	"	"	
Copper	ND		8.69	"	"	"	"	"	U
Lead	8.06		0.869	"	"	"	"	"	
Nickel	10.3		0.869	"	"	"	"	"	
Selenium	0.260		0.226	"	"	"	"	"	
Silver	ND		0.0869	"	"	"	"	"	U
Zinc	36.0		32.2	"	"	"	"	"	

Origins Laboratory



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

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

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 B4K0440 - EPA 3050B

Blank (B4K0440-BLK1)

Prepared: 11/04/2024 Analyzed: 11/05/2024

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 (B4K0440-BS1)

Prepared: 11/04/2024 Analyzed: 11/05/2024

Arsenic	4.80	0.290	mg/kg	5.00		95.9	80-120			
Barium	488	10.0	"	500		97.6	80-120			
Cadmium	5.16	0.100	"	5.00		103	80-120			
Copper	50.9	10.0	"	50.0		102	80-120			
Lead	5.04	1.00	"	5.00		101	80-120			
Nickel	4.79	1.00	"	5.00		95.9	80-120			
Selenium	4.57	0.260	"	5.00		91.4	80-120			
Silver	5.36	0.100	"	5.00		107	80-120			
Zinc	47.3	37.0	"	50.0		94.6	80-120			

Matrix Spike (B4K0440-MS1)

Source: E4K0046-05

Prepared: 11/04/2024 Analyzed: 11/05/2024

Arsenic	8.64	0.257	mg/kg	4.43	4.00	105	75-125			
Barium	817	8.87	"	443	291	119	75-125			
Cadmium	5.34	0.0887	"	4.43	0.274	114	75-125			
Copper	69.5	8.87	"	44.3	19.5	113	75-125			
Lead	22.1	0.887	"	4.43	16.2	133	75-125			QM-07

Origins Laboratory

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Wheat Ridge CO 80033

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

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 B4K0440 - EPA 3050B

Matrix Spike (B4K0440-MS1)

Source: E4K0046-05

Prepared: 11/04/2024 Analyzed: 11/05/2024

Nickel	20.6	0.887	mg/kg	4.43	15.2	121	75-125			
Selenium	4.99	0.231	"	4.43	0.406	103	75-125			
Silver	5.33	0.0887	"	4.43	0.151	117	75-125			
Zinc	147	32.8	"	44.3	99.8	106	75-125			

Matrix Spike Dup (B4K0440-MSD1)

Source: E4K0046-05

Prepared: 11/04/2024 Analyzed: 11/05/2024

Arsenic	8.73	0.269	mg/kg	4.63	4.00	102	75-125	0.954	20	
Barium	804	9.26	"	463	291	111	75-125	1.51	20	
Cadmium	5.63	0.0926	"	4.63	0.274	116	75-125	5.27	20	
Copper	70.6	9.26	"	46.3	19.5	110	75-125	1.63	20	
Lead	22.0	0.926	"	4.63	16.2	126	75-125	0.333	20	QM-07
Nickel	21.6	0.926	"	4.63	15.2	137	75-125	4.51	20	QM-07
Selenium	4.99	0.241	"	4.63	0.406	99.0	75-125	0.0447	20	
Silver	5.60	0.0926	"	4.63	0.151	118	75-125	4.96	20	
Zinc	148	34.3	"	46.3	99.8	104	75-125	0.939	20	

Batch B4K0447 - EPA 3050B

Blank (B4K0447-BLK1)

Prepared: 11/04/2024 Analyzed: 11/05/2024

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

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

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
Batch B4K0447 - EPA 3050B										
Blank (B4K0447-BLK1)					Prepared: 11/04/2024 Analyzed: 11/05/2024					
Zinc	ND	37.0	mg/kg							U
LCS (B4K0447-BS1)					Prepared: 11/04/2024 Analyzed: 11/05/2024					
Arsenic	5.50	0.290	mg/kg	5.00		110	80-120			
Barium	521	10.0	"	500		104	80-120			
Cadmium	5.43	0.100	"	5.00		109	80-120			
Copper	57.6	10.0	"	50.0		115	80-120			
Lead	5.13	1.00	"	5.00		103	80-120			
Nickel	5.31	1.00	"	5.00		106	80-120			
Selenium	5.66	0.260	"	5.00		113	80-120			
Silver	5.68	0.100	"	5.00		114	80-120			
Zinc	54.0	37.0	"	50.0		108	80-120			
Matrix Spike (B4K0447-MS1)		Source: E4K0054-01			Prepared: 11/04/2024 Analyzed: 11/05/2024					
Arsenic	7.22	0.261	mg/kg	4.51	2.25	110	75-125			
Barium	520	9.01	"	451	66.7	101	75-125			
Cadmium	4.99	0.0901	"	4.51	0.127	108	75-125			
Copper	55.0	9.01	"	45.1	6.15	108	75-125			
Lead	9.67	0.901	"	4.51	8.47	26.8	75-125			QM-07
Nickel	10.3	0.901	"	4.51	5.64	103	75-125			
Selenium	4.70	0.234	"	4.51	0.125	102	75-125			
Silver	5.19	0.0901	"	4.51	0.0243	115	75-125			
Zinc	73.5	33.3	"	45.1	28.1	101	75-125			
Matrix Spike Dup (B4K0447-MSD1)		Source: E4K0054-01			Prepared: 11/04/2024 Analyzed: 11/05/2024					
Arsenic	7.21	0.264	mg/kg	4.56	2.25	109	75-125	0.160	20	
Barium	570	9.12	"	456	66.7	110	75-125	9.20	20	

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Jen Pellegrini, 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 - Canepa 6-13

Metals by EPA 6000/7000 Series Methods - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0447 - EPA 3050B

Matrix Spike Dup (B4K0447-MSD1)	Source: E4K0054-01			Prepared: 11/04/2024 Analyzed: 11/05/2024						
Cadmium	5.10	0.0912	mg/kg	4.56	0.127	109	75-125	2.17	20	
Copper	55.7	9.12	"	45.6	6.15	109	75-125	1.19	20	
Lead	10.4	0.912	"	4.56	8.47	42.1	75-125	7.10	20	QM-07
Nickel	10.4	0.912	"	4.56	5.64	105	75-125	1.20	20	
Selenium	4.70	0.237	"	4.56	0.125	100	75-125	0.0585	20	
Silver	5.29	0.0912	"	4.56	0.0243	115	75-125	1.89	20	
Zinc	73.9	33.7	"	45.6	28.1	100	75-125	0.538	20	

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Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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