



Quandary Consultants

November 08, 2024

Mike Dinkel

2252 Emerson St.

Denver CO 80205

Project Name - KMG - Kiteley 3-27

Project Number - [none]

Attached are your analytical results for KMG - Kiteley 3-27 received by Origins Laboratory November 07, 2024. This project is associated with Origins project number E4K0209-01.

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

Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: KMG - Kiteley 3-27

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
3-27-WH-B01@6'	E4K0209-01	Soil	November 7, 2024 13:25	11/07/2024 16:52
3-27-FL-B01@4'	E4K0209-02	Soil	November 7, 2024 13:27	11/07/2024 16:52
4-27-FL-B01@4'	E4K0209-03	Soil	November 7, 2024 13:23	11/07/2024 16:52

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: KMG - Kiteley 3-27

ORIGINS

LABORATORY INC

ORIGINS WORK ORDER #

EUK0209

Page 1 of 1

Client: Leea-Nicke Dir. & GNS Overseas, LP
 Address: 501 N. Division St.
RATTEVILLE, CO 80651

Project Manager: Mike Dinkel

Project Name: Kiteley 3-27
 Project Number: None

Key: W=Water
GW=Groundwater
SW=Surface Water
WW=Waste Water
L=Liquid

Telephone Number: 785 691-7188
 Email Address: MPDYKEL@QUANDARYCONSULTANTS.COM

Collected By: WT/RH/PS
 Invoice Billing Info: ERIK NICKEL SQ1

SW=Surface Water
 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	Time	# of Containers	Matrix Preservative	Analysis				Comments	
						1	2	3	4		
1	3-27-WH-SM-01	11/07/24	1325	3	S						
2	3-27-FL-BM-01	11/07/24	1324	3	S						
3	3-27-FL-BM										
4	4-27-FL-BM-01	11/07/24	1323	3	S						
5											
6											
7											
8											
9											
10											

Relinquished By: AKA Date: 11/7/24 Time: 1652
 Received By: SHD Date: 11/7/24 Time: 1652

Temp Received- 4.1 Received On Ice? Yes No

Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr

Standard

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: KMG - Kiteley 3-27

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: E4K0209 Client: Quandary
 Client Project ID: Freeburg
 Checklist Completed by: SHD AN Shipped Via: HD
 Date/time completed: 11/7/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 141 °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 ⁽¹⁾ ?	/			
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) SHD Date/Time Reviewed 11/7/12

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: KMG - Kiteley 3-27

3-27-WH-B01@6'
11/7/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0209-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0761	11/07/2024	11/08/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	84.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0766	11/07/2024	11/07/2024	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	97.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %		70-130			"	"	"	

Table 915 metals by EPA 6020B

Origins Laboratory



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: KMG - Kiteley 3-27

3-27-WH-B01@6'

11/7/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0209-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	6.03		0.282	mg/kg	10	B4K0763	11/07/2024	11/08/2024	
Barium	189		9.71	"	"	"	"	"	
Cadmium	0.264		0.0971	"	"	"	"	"	
Copper	15.8		9.71	"	"	"	"	"	
Lead	15.2		0.971	"	"	"	"	"	
Nickel	13.7		0.971	"	"	"	"	"	
Selenium	0.314		0.252	"	"	"	"	"	
Silver	0.0971		0.0971	"	"	"	"	"	
Zinc	70.9		35.9	"	"	"	"	"	

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: KMG - Kiteley 3-27

3-27-FL-B01@4'

11/7/2024 1:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0209-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0761	11/07/2024	11/08/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0766	11/07/2024	11/07/2024	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	108 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3 %		70-130			"	"	"	

Table 915 metals by EPA 6020B

Origins Laboratory



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: KMG - Kiteley 3-27

3-27-FL-B01@4'

11/7/2024 1:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0209-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.76		0.260	mg/kg	10	B4K0763	11/07/2024	11/08/2024	
Barium	247		8.97	"	"	"	"	"	
Cadmium	0.257		0.0897	"	"	"	"	"	
Copper	14.2		8.97	"	"	"	"	"	
Lead	13.6		0.897	"	"	"	"	"	
Nickel	10.4		0.897	"	"	"	"	"	
Selenium	0.319		0.233	"	"	"	"	"	
Silver	0.0914		0.0897	"	"	"	"	"	
Zinc	75.1		33.2	"	"	"	"	"	

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: KMG - Kiteley 3-27

4-27-FL-B01@4'

11/7/2024 1:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0209-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0761	11/07/2024	11/08/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	59.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0766	11/07/2024	11/07/2024	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	122 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.1 %		70-130			"	"	"	

Table 915 metals by EPA 6020B

Origins Laboratory



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: KMG - Kiteley 3-27

4-27-FL-B01@4'

11/7/2024 1:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0209-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	6.91	0.282	mg/kg	10	B4K0763	11/07/2024	11/08/2024	
Barium	365	9.72	"	"	"	"	"	
Cadmium	0.388	0.0972	"	"	"	"	"	
Copper	22.4	9.72	"	"	"	"	"	
Lead	21.7	0.972	"	"	"	"	"	
Nickel	14.9	0.972	"	"	"	"	"	
Selenium	0.332	0.253	"	"	"	"	"	
Silver	0.174	0.0972	"	"	"	"	"	
Zinc	113	36.0	"	"	"	"	"	

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: KMG - Kiteley 3-27

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
Batch B4K0761 - EPA 3550B										
Blank (B4K0761-BLK1)										
					Prepared: 11/07/2024 Analyzed: 11/07/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		81.4	50-150			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: KMG - Kiteley 3-27

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 B4K0761 - EPA 3550B

LCS (B4K0761-BS1)

Prepared: 11/07/2024 Analyzed: 11/07/2024

Diesel (C10-C28)	966	50.0	mg/kg	1000		96.6	70-130			
Residual Range Organics (C28-C40)	1120	200	"	1000		112	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.6	50-150			

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: KMG - Kiteley 3-27

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 B4K0761 - EPA 3550B

Matrix Spike (B4K0761-MS1)	Source: E4K0201-01			Prepared: 11/07/2024 Analyzed: 11/07/2024						
Diesel (C10-C28)	904	50.0	mg/kg	1000	ND	90.4	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000	58.2	101	70-130			
Surrogate: o-Terphenyl	41		"	49.8		82.0	50-150			

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Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: KMG - Kiteley 3-27

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
Batch B4K0761 - EPA 3550B										
Matrix Spike Dup (B4K0761-MSD1)		Source: E4K0201-01			Prepared: 11/07/2024 Analyzed: 11/07/2024					
Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130	13.5	35	
Residual Range Organics (C28-C40)	1230	200	"	1000	58.2	117	70-130	14.2	35	
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: KMG - Kiteley 3-27

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
Batch B4K0766 - EPA 5030 (soil)										
Blank (B4K0766-BLK1)										
					Prepared: 11/07/2024 Analyzed: 11/07/2024					
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	0.12		"	0.125	99.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.0		70-130			

Origins Laboratory



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2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: KMG - Kiteley 3-27

**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 B4K0766 - EPA 5030 (soil)

LCS (B4K0766-BS1)

Prepared: 11/07/2024 Analyzed: 11/07/2024

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.0960	0.00200	"	0.100		96.0	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.115	0.00380	"	0.100		115	70-130			
Toluene	0.0956	0.00200	"	0.100		95.6	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: KMG - Kiteley 3-27

**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 B4K0766 - EPA 5030 (soil)

Matrix Spike (B4K0766-MS1)	Source: E4K0209-01			Prepared: 11/07/2024 Analyzed: 11/07/2024						
1,2,4-Trimethylbenzene	0.0773	0.00200	mg/kg	0.100	ND	77.3	70-130			
1,3,5-Trimethylbenzene	0.0765	0.00200	"	0.100	ND	76.5	70-130			
Benzene	0.0719	0.00200	"	0.100	ND	71.9	70-130			
Ethylbenzene	0.0876	0.00200	"	0.100	ND	87.6	70-130			
Naphthalene	0.0736	0.00380	"	0.100	ND	73.6	70-130			
Toluene	0.0730	0.00200	"	0.100	ND	73.0	70-130			
o-Xylene	0.0739	0.00200	"	0.100	ND	73.9	70-130			
m,p-Xylene	0.175	0.00400	"	0.200	ND	87.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: KMG - Kiteley 3-27

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 B4K0766 - EPA 5030 (soil)

Matrix Spike Dup (B4K0766-MSD1)	Source: E4K0209-01			Prepared: 11/07/2024 Analyzed: 11/07/2024						
1,2,4-Trimethylbenzene	0.0749	0.00200	mg/kg	0.100	ND	74.9	70-130	3.15	20	
1,3,5-Trimethylbenzene	0.0741	0.00200	"	0.100	ND	74.1	70-130	3.13	20	
Benzene	0.0747	0.00200	"	0.100	ND	74.7	70-130	3.90	20	
Ethylbenzene	0.0856	0.00200	"	0.100	ND	85.6	70-130	2.29	20	
Naphthalene	0.0788	0.00380	"	0.100	ND	78.8	70-130	6.75	20	
Toluene	0.0721	0.00200	"	0.100	ND	72.1	70-130	1.32	20	
o-Xylene	0.0727	0.00200	"	0.100	ND	72.7	70-130	1.61	20	
m,p-Xylene	0.170	0.00400	"	0.200	ND	85.1	70-130	2.57	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Mike Dinkel
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 Project: KMG - Kiteley 3-27

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 B4K0763 - EPA 3050B

Blank (B4K0763-BLK1)

Prepared: 11/07/2024 Analyzed: 11/08/2024

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 (B4K0763-BS1)

Prepared: 11/07/2024 Analyzed: 11/08/2024

Arsenic	5.32	0.290	mg/kg	5.00		106	80-120
Barium	502	10.0	"	500		100	80-120
Cadmium	5.32	0.100	"	5.00		106	80-120
Copper	52.9	10.0	"	50.0		106	80-120
Lead	4.85	1.00	"	5.00		96.9	80-120
Nickel	5.50	1.00	"	5.00		110	80-120
Selenium	5.18	0.260	"	5.00		104	80-120
Silver	5.55	0.100	"	5.00		111	80-120
Zinc	52.6	37.0	"	50.0		105	80-120

Matrix Spike (B4K0763-MS1)

Source: E4K0203-04

Prepared: 11/07/2024 Analyzed: 11/08/2024

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Mike Dinkel
 Project Number: [none]
 Project: KMG - Kiteley 3-27

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 B4K0763 - EPA 3050B

Matrix Spike (B4K0763-MS1)	Source: E4K0203-04			Prepared: 11/07/2024 Analyzed: 11/08/2024						
Arsenic	11.7	0.256	mg/kg	4.41	6.41	120	75-125			
Barium	584	8.83	"	441	116	106	75-125			
Cadmium	5.04	0.0883	"	4.41	0.223	109	75-125			
Copper	62.6	8.83	"	44.1	14.2	110	75-125			
Lead	16.1	0.883	"	4.41	11.6	101	75-125			
Nickel	22.1	0.883	"	4.41	16.4	129	75-125			QM-07
Selenium	5.00	0.230	"	4.41	0.270	107	75-125			
Silver	4.95	0.0883	"	4.41	0.0572	111	75-125			
Zinc	106	32.7	"	44.1	57.5	110	75-125			

Matrix Spike Dup (B4K0763-MSD1)	Source: E4K0203-04			Prepared: 11/07/2024 Analyzed: 11/08/2024						
Arsenic	12.0	0.281	mg/kg	4.85	6.41	115	75-125	2.41	20	
Barium	689	9.70	"	485	116	118	75-125	16.6	20	
Cadmium	5.42	0.0970	"	4.85	0.223	107	75-125	7.13	20	
Copper	66.9	9.70	"	48.5	14.2	109	75-125	6.68	20	
Lead	16.8	0.970	"	4.85	11.6	107	75-125	4.46	20	
Nickel	23.7	0.970	"	4.85	16.4	151	75-125	7.16	20	QM-07
Selenium	5.51	0.252	"	4.85	0.270	108	75-125	9.73	20	
Silver	5.43	0.0970	"	4.85	0.0572	111	75-125	9.29	20	
Zinc	112	35.9	"	48.5	57.5	113	75-125	5.55	20	

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Mike Dinkel
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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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