



June 13, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - UPRC 9-12J5

Project Number - [none]

Attached are your analytical results for KMG - UPRC 9-12J5 received by Origins Laboratory, Inc. June 06, 2023. This project is associated with Origins project number Y306135-01.

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 - UPRC 9-12J5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	Y306135-01	Soil	June 6, 2023 13:57	06/06/2023 17:55
FL-B01@4'	Y306135-02	Soil	June 6, 2023 14:08	06/06/2023 17:55

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 - UPRC 9-12JS

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

Sample Receipt Checklist

Origins Work Order: 4306135 Client: Eagle Environmental
 Client Project ID: UPRC 9-12JS

Checklist Completed by: EHS Shipped Via: Hand Delivered
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 6/6/23 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 2 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: 700U

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 or 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 be taken in the additional comments (above) and the case narrative.

[Signature]
 Reviewed by (Project Manager)

[Signature]
 Date/Time Reviewed

Origins Laboratory, Inc.
[Signature]

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - UPRC 9-12J5

WH-B01@6'
 6/6/2023 1:57:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306135-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.31	0.0992	mg/L	1	B3F0702	KAP	06/07/2023	06/08/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F0628	ZZZ	06/06/2023	06/07/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	91.7 %		50-150		"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F0632	JSM	06/06/2023	06/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.2 %		70-130		"	"	"	"	
Surrogate: Toluene-d8	96.9 %		70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	84.1 %		70-130		"	"	"	"	

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC
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Dan Coloccia
Project Number: [none]
Project: KMG - UPRC 9-12J5

WH-B01@6'
6/6/2023 1:57:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306135-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.830	0.499	meq/L	10	[CALC]	KAP	06/07/2023	06/08/2023	
Magnesium	1.34	0.823	"	"	"	KAP	"	"	
Sodium	1.49	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.36		pH Units	1	B3F0709	HJD	06/07/2023	06/08/2023	
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SAR by 20B Saturated Paste

SAR	1.43		SAR	1	B3F0705	KAP	06/07/2023	06/08/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.426	0.00500	mmhos/cm	1	B3F0709	HJD	06/07/2023	06/08/2023	
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Jordan A. Bynon, Project Manager



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - UPRC 9-12J5

FL-B01@4'

6/6/2023 2:08:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306135-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.668	0.100	mg/L	1	B3F0702	KAP	06/07/2023	06/08/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F0628	ZZZ	06/06/2023	06/07/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	93.7 %		50-150		"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F0632	JSM	06/06/2023	06/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.0 %		70-130		"	"	"	"	
Surrogate: Toluene-d8	96.3 %		70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	84.8 %		70-130		"	"	"	"	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - UPRC 9-12J5

FL-B01@4'

6/6/2023 2:08:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306135-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.13	0.499	meq/L	10	[CALC]	KAP	06/07/2023	06/08/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	0.561	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.37		pH Units	1	B3F0709	HJD	06/07/2023	06/08/2023	
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SAR by 20B Saturated Paste

SAR	0.668		SAR	1	B3F0705	KAP	06/07/2023	06/08/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.433	0.00500	mmhos/cm	1	B3F0709	HJD	06/07/2023	06/08/2023	
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Dan Coloccia
Project Number: [none]
Project: KMG - UPRC 9-12J5

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 B3F0628 - EPA 3550B

Blank (B3F0628-BLK1)

Prepared: 06/06/2023 Analyzed: 06/06/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		95.3	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 B3F0628 - EPA 3550B

LCS (B3F0628-BS1)

Prepared: 06/06/2023 Analyzed: 06/06/2023

Diesel (C10-C28)	922	50.0	mg/kg	1000		92.2	70-130			
Residual Range Organics (C28-C40)	946	200	"	1000		94.6	70-130			
Surrogate: o-Terphenyl	58		"	49.8		117	50-150			

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Dan Coloccia
Project Number: [none]
Project: KMG - UPRC 9-12J5

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 B3F0628 - EPA 3550B

Matrix Spike (B3F0628-MS1)

Source: Y306128-01

Prepared: 06/06/2023 Analyzed: 06/06/2023

Diesel (C10-C28)	896	50.0	mg/kg	1000	ND	89.6	70-130			
Residual Range Organics (C28-C40)	921	200	"	1000	ND	92.1	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

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Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - UPRC 9-12J5

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 B3F0628 - EPA 3550B

Matrix Spike Dup (B3F0628-MSD1)

Source: Y306128-01

Prepared: 06/06/2023 Analyzed: 06/06/2023

Diesel (C10-C28)	916	50.0	mg/kg	1000	ND	91.6	70-130	2.14	35	
Residual Range Organics (C28-C40)	926	200	"	1000	ND	92.6	70-130	0.441	35	
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

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Dan Coloccia
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 Project: KMG - UPRC 9-12J5

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 B3F0632 - EPA 5030 (soil)

Blank (B3F0632-BLK1)

Prepared: 06/06/2023 Analyzed: 06/06/2023

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	0.12		"	0.125		93.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		84.5	70-130			

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Jordan A. Bynon, Project Manager



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

Dan Coloccia
Project Number: [none]
Project: KMG - UPRC 9-12J5

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 B3F0632 - EPA 5030 (soil)

LCS (B3F0632-BS1)

Prepared: 06/06/2023 Analyzed: 06/06/2023

1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.114	0.00200	"	0.100		114	70-130			
Ethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Naphthalene	0.116	0.00380	"	0.100		116	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
o-Xylene	0.108	0.00200	"	0.100		108	70-130			
m,p-Xylene	0.218	0.00400	"	0.200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.7	70-130			

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Project: KMG - UPRC 9-12J5

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 B3F0632 - EPA 5030 (soil)

Matrix Spike (B3F0632-MS1)

Source: Y306132-09

Prepared: 06/06/2023 Analyzed: 06/06/2023

1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Benzene	0.104	0.00200	"	0.100	ND	104	70-130			
Ethylbenzene	0.0995	0.00200	"	0.100	ND	99.5	70-130			
Naphthalene	0.120	0.00380	"	0.100	0.000760	119	70-130			
Toluene	0.0964	0.00200	"	0.100	ND	96.4	70-130			
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130			
m,p-Xylene	0.205	0.00400	"	0.200	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	70-130			

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC
 8000 W 44th Ave
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Dan Coloccia
 Project Number: [none]
 Project: KMG - UPRC 9-12J5

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 B3F0632 - EPA 5030 (soil)

Matrix Spike Dup (B3F0632-MSD1)

Source: Y306132-09

Prepared: 06/06/2023 Analyzed: 06/06/2023

1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130	0.156	20	
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	0.276	20	
Benzene	0.103	0.00200	"	0.100	ND	103	70-130	0.502	20	
Ethylbenzene	0.0965	0.00200	"	0.100	ND	96.5	70-130	3.04	20	
Naphthalene	0.113	0.00380	"	0.100	0.000760	112	70-130	6.26	20	
Toluene	0.0949	0.00200	"	0.100	ND	94.9	70-130	1.57	20	
o-Xylene	0.0997	0.00200	"	0.100	ND	99.7	70-130	2.71	20	
m,p-Xylene	0.199	0.00400	"	0.200	ND	99.7	70-130	2.77	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.7	70-130			

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
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Dan Coloccia
 Project Number: [none]
 Project: KMG - UPRC 9-12J5

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3F0702 - DTPA Sorbitol Preparation

Blank (B3F0702-BLK1)

Prepared: 06/07/2023 Analyzed: 06/08/2023

Boron ND 0.100 mg/L

Duplicate (B3F0702-DUP1)

Source: Y306127-01

Prepared: 06/07/2023 Analyzed: 06/08/2023

Boron 0.0401 0.0993 mg/L

0.0418 4.10 50

Batch B3F0705 - Saturated Paste Metals

Blank (B3F0705-BLK1)

Prepared: 06/07/2023 Analyzed: 06/08/2023

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3F0705-DUP1)

Source: Y306127-01

Prepared: 06/07/2023 Analyzed: 06/08/2023

Calcium PPM 331 10.0 mg/L

238 32.6 50

SAR 0.00 SAR

1.39 200 200

Magnesium PPM 149 10.0 mg/L

115 25.7 50

Sodium PPM 113 10.0 "

104 7.97 50

Origins Laboratory, Inc.



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

Jordan A. Bynon, Project Manager



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - UPRC 9-12J5

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 B3F0709 - Saturated Paste pH/EC

Blank (B3F0709-BLK1)

Prepared: 06/07/2023 Analyzed: 06/08/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3F0709-DUP1) **Source: Y306127-01**

Prepared: 06/07/2023 Analyzed: 06/08/2023

Specific Conductance (EC) 2.57 0.00500 mmhos/cm 2.20 15.2 25

pH 0.00 pH Units 7.69 25

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Jordan A. Bynon, Project Manager



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

Dan Coloccia
Project Number: [none]
Project: KMG - UPRC 9-12J5

Notes and Definitions

- U Sample is Non-Detect.
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

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