



Quandary Consultants

Robert Lodge

2252 Emerson St.

Denver CO 80205

July 17, 2025

Project Name - KMG - REI H9-32D,H9-33D,UPRC 9-12J5 **Project Number - [none]**

Attached are your analytical results for KMG - REI H9-32D,H9-33D,UPRC 9-12J5 received by Origins Laboratory July 09, 2025. This project is associated with Origins project number E5G0220-01.

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
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Project Number: [none]
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9-12J5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-01V@6'	E5G0220-01	Soil	July 9, 2025 11:34	07/09/2025 13:16

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

Sample Receipt Checklist

Origins Work Order: ESG0220

Client: Quandary

Client Project ID: Rei H 9-32D, 33D, UPRC 9-12 J5

Checklist Completed by: NKM/NB

Shipped Via: HD

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

Date/time completed: 07/10/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid

Water

Other:

(Describe)

Cooler Number/Temperature: 1, 5.2 °C

Thermometer ID: T-007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subsampled analyses in order to insure sample integrity)(pH ≤2 for samples preserved with HNO3, HCl, H2SO4) / (pH >10 for samples preserved with NaOH, Na2CO3, NaOH, ZnAc/NaOH)			<input checked="" type="checkbox"/>	
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)

07/14/12
Date/Time Reviewed

Origins Laboratory

EHO

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 9-12J5

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LABORATORY

E560210

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Client: Kerr-McGee Oil and Gas Division, LP
 Address: 501 North Division Street
 Platteville CO 80851
 Telephone Number: 785-891-7788
 Email Address: r.lodge@kerrmcgee.com
 Project Manager: Robert Lodge
 Project Name: KMG H9-32D, H9-33D, UPRC
 Project Number: 44755
 Collected By: RLW
 Invoiced Billing Info: Eric Michaelson
 (See notes on file)
 Date Received: 07/17/2025

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis		Comments
					Lead		
TR01001	7/18/25	11:54	5	NH	X		

Requisitioned By: JB
 Date: 7-9-25
 Time: 3:10 P
 Received By: NLM
 Date: 07/09/25
 Time: 13:16
 Temp Received: 5.2 C
 Received on Ice? Yes No
 Standard
 48 Hr 72
 SAME DAY 24 Hr

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TP-01V@6'

7/9/2025 11:34:00AM

Analyte	Detection Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5G0220-01 (Soil)								
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Table 915 metals by EPA 6020B								
Lead	17.8	13.6	mg/kg	10	B5G1031	07/10/2025	07/14/2025	

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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
Batch B5G1031 - EPA 3050B										
Blank (B5G1031-BLK1)										
					Prepared: 07/10/2025 Analyzed: 07/14/2025					
Lead	ND	14.0	mg/kg							
LCS (B5G1031-BS1)										
					Prepared: 07/10/2025 Analyzed: 07/14/2025					
Lead	5.24	14.0	mg/kg	5.00		105	80-120			
Matrix Spike (B5G1031-MS1)										
		Source: E5G0210-01			Prepared: 07/10/2025 Analyzed: 07/14/2025					
Lead	12.1	12.9	mg/kg	4.62	7.74	94.1	75-125			
Matrix Spike Dup (B5G1031-MSD1)										
		Source: E5G0210-01			Prepared: 07/10/2025 Analyzed: 07/14/2025					
Lead	13.0	12.4	mg/kg	4.44	7.74	119	75-125	7.45	20	

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Notes and Definitions

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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