



Absaroka  
Max Dahlgren  
112 High St.

December 10, 2024

Buffalo WY 82834

**Project Name - KMG - Mulga 29C Small Eyed 14C HZ OSA Facility**    **Project Number - [none]**

Attached are your analytical results for KMG - Mulga 29C Small Eyed 14C HZ OSA Facility received by Origins Laboratory December 09, 2024. This project is associated with Origins project number E4L0305-01.

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

Absaroka

112 High St.

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WY

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Max Dahlgren

Project Number: [none]

Project: KMG - Mulga 29C Small Eyed 14C HZ  
OSA Facility

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
REL-B03@9'	E4L0305-01	Soil	December 9, 2024 11:50	12/09/2024 16:30

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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OSA Facility

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## Sample Receipt Checklist

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

Origins Work Order: E4L0305

Client: Absaroka

Client Project ID: B Mulga

Checklist Completed by: 240 2/5

Shipped Via: ISO

Date/time completed: 12/9/12

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

Airbill #: N/A

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

Cooler Number/Temperature: 115.2 °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 <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 HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +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) 240

Date/Time Reviewed 12/9 E4

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*Jen Pellegrini*

Jen Pellegrini For Jordan A. Bynon, Project Manager

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OSA Facility

REL-B03@9'

12/9/2024 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory

### E4L0305-01 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	73.5		25.0	mg/kg	1	B4L0935	12/09/2024	12/09/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	70.1 %		50-150			"	"	"	
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.247		0.00200	mg/kg	1	B4L0948	12/09/2024	12/10/2024	
1,3,5-Trimethylbenzene	0.105		0.00200	"	"	"	"	"	
Benzene	0.00244		0.00200	"	"	"	"	"	
Ethylbenzene	0.0112		0.00200	"	"	"	"	"	
Toluene	0.0122		0.00200	"	"	"	"	"	
Xylenes, total	0.198		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	16.3		5.00	"	25	"	"	12/10/2024	

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	12/10/2024	
Surrogate: Toluene-d8	103 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	84.8 %		70-130			"	"	"	

### Table 915 metals by EPA 6020B

Arsenic	2.71		0.257	mg/kg	10	B4L0945	12/09/2024	12/10/2024	
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REL-B03@9'

12/9/2024 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory

E4L0305-01 (Soil)

### Table 915 metals by EPA 6020B

Barium	87.6	8.86	mg/kg	10	B4L0945	12/09/2024	12/10/2024	
Cadmium	0.0948	0.0886	"	"	"	"	"	
Copper	ND	8.86	"	"	"	"	"	U
Lead	5.62	0.886	"	"	"	"	"	
Nickel	7.56	0.886	"	"	"	"	"	

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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 B4L0935 - EPA 3550B</b>										
<b>Blank (B4L0935-BLK1)</b>					Prepared: 12/09/2024 Analyzed: 12/10/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		92.6	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 B4L0935 - EPA 3550B

#### LCS (B4L0935-BS1)

Prepared: 12/09/2024 Analyzed: 12/10/2024

Diesel (C10-C28)	1050	50.0	mg/kg	1000		105	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000		108	70-130			
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 B4L0935 - EPA 3550B

Matrix Spike (B4L0935-MS1)		Source: E4L0255-01			Prepared: 12/09/2024 Analyzed: 12/10/2024					
Diesel (C10-C28)	1130	50.0	mg/kg	1000	ND	113	70-130			
Residual Range Organics (C28-C40)	1400	200	"	1000	120	128	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	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 B4L0935 - EPA 3550B

Matrix Spike Dup (B4L0935-MSD1)		Source: E4L0255-01			Prepared: 12/09/2024 Analyzed: 12/10/2024					
Diesel (C10-C28)	1120	50.0	mg/kg	1000	ND	112	70-130	1.63	35	
Residual Range Organics (C28-C40)	1450	200	"	1000	120	133	70-130	3.67	35	QM-07
Surrogate: o-Terphenyl	50		"	49.8		101	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 B4L0948 - EPA 5030 (soil)</b>										
<b>Blank (B4L0948-BLK1)</b>					Prepared: 12/09/2024 Analyzed: 12/09/2024					
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	0.12		"	0.125		98.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		117	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 B4L0948 - EPA 5030 (soil)

#### LCS (B4L0948-BS1)

Prepared: 12/09/2024 Analyzed: 12/09/2024

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.117	0.00380	"	0.100		117	70-130			
Toluene	0.0962	0.00200	"	0.100		96.2	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.207	0.00400	"	0.200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.7	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 B4L0948 - EPA 5030 (soil)

Matrix Spike (B4L0948-MS1)		Source: E4L0301-01			Prepared: 12/09/2024 Analyzed: 12/09/2024					
1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100	0.0189	97.3	70-130			
1,3,5-Trimethylbenzene	0.0872	0.00200	"	0.100	0.00480	82.4	70-130			
Benzene	0.0973	0.00200	"	0.100	0.00358	93.7	70-130			
Ethylbenzene	0.120	0.00200	"	0.100	0.00844	112	70-130			
Naphthalene	0.115	0.00380	"	0.100	0.0157	99.8	70-130			
Toluene	0.0984	0.00200	"	0.100	0.0123	86.1	70-130			
o-Xylene	0.116	0.00200	"	0.100	0.0126	103	70-130			
m,p-Xylene	0.228	0.00400	"	0.200	0.0232	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	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 B4L0948 - EPA 5030 (soil)

Matrix Spike Dup (B4L0948-MSD1)		Source: E4L0301-01			Prepared: 12/09/2024 Analyzed: 12/09/2024					
1,2,4-Trimethylbenzene	0.131	0.00200	mg/kg	0.100	0.0189	112	70-130	12.2	20	
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	0.00480	102	70-130	19.9	20	
Benzene	0.104	0.00200	"	0.100	0.00358	100	70-130	6.56	20	
Ethylbenzene	0.113	0.00200	"	0.100	0.00844	105	70-130	5.81	20	
Naphthalene	0.138	0.00380	"	0.100	0.0157	122	70-130	17.9	20	
Toluene	0.110	0.00200	"	0.100	0.0123	97.7	70-130	11.1	20	
o-Xylene	0.110	0.00200	"	0.100	0.0126	97.3	70-130	5.33	20	
m,p-Xylene	0.218	0.00400	"	0.200	0.0232	97.5	70-130	4.53	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.1	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 B4L0945 - EPA 3050B

#### Blank (B4L0945-BLK1)

Prepared: 12/09/2024 Analyzed: 12/10/2024

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 (B4L0945-BS1)

Prepared: 12/09/2024 Analyzed: 12/10/2024

Arsenic	5.17	0.290	mg/kg	5.00		103	80-120
Barium	539	10.0	"	500		108	80-120
Cadmium	5.44	0.100	"	5.00		109	80-120
Copper	54.8	10.0	"	50.0		110	80-120
Lead	5.32	1.00	"	5.00		106	80-120
Nickel	5.20	1.00	"	5.00		104	80-120
Selenium	5.85	0.260	"	5.00		117	80-120
Silver	5.68	0.100	"	5.00		114	80-120
Zinc	52.6	37.0	"	50.0		105	80-120

#### Matrix Spike (B4L0945-MS1)

Source: E4L0302-05

Prepared: 12/09/2024 Analyzed: 12/10/2024

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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 B4L0945 - EPA 3050B

Matrix Spike (B4L0945-MS1)		Source: E4L0302-05			Prepared: 12/09/2024 Analyzed: 12/10/2024					
Arsenic	7.76	0.259	mg/kg	4.47	2.61	115	75-125			
Barium	594	8.95	"	447	53.1	121	75-125			
Cadmium	5.54	0.0895	"	4.47	0.191	120	75-125			
Copper	68.9	8.95	"	44.7	6.17	140	75-125			QM-07
Lead	14.6	0.895	"	4.47	9.01	125	75-125			
Nickel	11.3	0.895	"	4.47	5.39	133	75-125			QM-07
Selenium	5.52	0.233	"	4.47	0.203	119	75-125			
Silver	5.62	0.0895	"	4.47	0.0303	125	75-125			
Zinc	80.1	33.1	"	44.7	26.2	120	75-125			
Matrix Spike Dup (B4L0945-MSD1)		Source: E4L0302-05			Prepared: 12/09/2024 Analyzed: 12/10/2024					
Arsenic	6.94	0.263	mg/kg	4.53	2.61	95.7	75-125	11.1	20	
Barium	556	9.06	"	453	53.1	111	75-125	6.60	20	
Cadmium	5.04	0.0906	"	4.53	0.191	107	75-125	9.41	20	
Copper	54.3	9.06	"	45.3	6.17	106	75-125	23.7	20	QM-07
Lead	13.7	0.906	"	4.53	9.01	104	75-125	6.38	20	
Nickel	9.80	0.906	"	4.53	5.39	97.4	75-125	14.5	20	
Selenium	4.88	0.236	"	4.53	0.203	103	75-125	12.3	20	
Silver	5.12	0.0906	"	4.53	0.0303	112	75-125	9.38	20	
Zinc	71.5	33.5	"	45.3	26.2	99.9	75-125	11.4	20	

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OSA Facility

## 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.

Origins Laboratory



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*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.*