



Absaroka
Joel Mason
112 High St.

January 07, 2025

Buffalo WY 82834

Project Name - Rhoades 22-35 #2

Project Number - CIT.CO.0931

Attached are your analytical results for Rhoades 22-35 #2 received by Origins Laboratory November 27, 2024. This project is associated with Origins project number E4L0012-01.

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.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.0931
Project: Rhoades 22-35 #2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
R22-35#2C@2'	E4L0012-01	Soil	November 25, 2024 11:52	11/27/2024 12:33
R22-35#2WH@2'	E4L0012-02	Soil	November 25, 2024 11:55	11/27/2024 12:33
R22-35#2SHED@2'	E4L0012-03	Soil	November 25, 2024 12:00	11/27/2024 12:33

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Joel Mason
Project Number: CIT.CO.0931
Project: Rhoades 22-35 #2

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: E44002

Client: Absaroka

Client Project ID: Rhoades 22-35 # 2

Checklist Completed by: JSJ / VS

Shipped Via: FW
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 12/2/12

Airbill #: NA

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

Cooler Number/Temperature: 1 13.7 °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⁾ ?	<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"/>	<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"/>	<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"/>	<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"/>		<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 subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc ₂ +NaOH)	<input checked="" type="checkbox"/>		<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 be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JSJ

12/3/12
Date/Time Reviewed

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.0931
Project: Rhoades 22-35 #2

R22-35#2C@2'
11/25/2024 11:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0012-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.433		0.101	mg/L	1	B4L0318	12/03/2024	12/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0241	12/02/2024	12/04/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	74.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0263	12/02/2024	12/03/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
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Origins Laboratory



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Joel Mason
Project Number: CIT.CO.0931
Project: Rhoades 22-35 #2

R22-35#2C@2'
11/25/2024 11:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0012-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B4L02 63	12/02/2024	12/03/2024	
Surrogate: 4-Bromofluorobenzene	94.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.09		0.499	meq/L	10	[CALC]	12/03/2024	12/06/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.711		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L0243	12/02/2024	12/03/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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R22-35#2C@2'
11/25/2024 11:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0012-01 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L0243	12/02/2024	12/03/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.3 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	108 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.9 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.46			pH Units	1	B4L0328	12/03/2024	12/05/2024	
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SAR by 20B Saturated Paste

SAR	0.760		0.0100	SAR	1	B4L0310	12/03/2024	12/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.340		0.00500	mmhos/cm	1	B4L0328	12/03/2024	12/05/2024	
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Table 915 metals by EPA 6020B

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R22-35#2C@2'
11/25/2024 11:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0012-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.12		0.265	mg/kg	10	B4L0248	12/02/2024	12/05/2024	
Barium	59.1		9.15	"	"	"	"	"	
Cadmium	ND		0.0915	"	"	"	"	"	Ua
Copper	ND		9.15	"	"	"	"	"	Ua
Lead	5.31		0.915	"	"	"	"	"	
Nickel	4.33		0.915	"	"	"	"	"	
Selenium	ND		0.238	"	"	"	"	"	Ua
Silver	ND		0.0915	"	"	"	"	"	Ua
Zinc	ND		33.9	"	"	"	"	"	Ua

Total Metals 7196A

Hexavalent Chromium	ND	0.133	0.333	mg/kg dry	1	2724779	12/23/2024	12/30/2024	U
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 Project Number: CIT.CO.0931
 Project: Rhoades 22-35 #2

R22-35#2WH@2'
11/25/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0012-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.150		0.102	mg/L	1	B4L0318	12/03/2024	12/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0241	12/02/2024	12/04/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	76.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0263	12/02/2024	12/03/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			"	"	"	
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 Project Number: CIT.CO.0931
 Project: Rhoades 22-35 #2

R22-35#2WH@2'
11/25/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0012-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B4L02 63	12/02/2024	12/03/2024	
Surrogate: 4-Bromofluorobenzene	94.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	12/03/2024	12/06/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.91		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L0243	12/02/2024	12/03/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 Buffalo WY 82834

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 Project: Rhoades 22-35 #2

R22-35#2WH@2'
11/25/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0012-02 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L0243	12/02/2024	12/03/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	91.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	106 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.1 %		60-130			"	"	"	

pH in Soil by 9045D

pH	9.05			pH Units	1	B4L0328	12/03/2024	12/05/2024	
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SAR by 20B Saturated Paste

SAR	5.56		0.0100	SAR	1	B4L0310	12/03/2024	12/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.279		0.00500	mmhos/cm	1	B4L0328	12/03/2024	12/05/2024	
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Table 915 metals by EPA 6020B

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Joel Mason
Project Number: CIT.CO.0931
Project: Rhoades 22-35 #2

R22-35#2WH@2'
11/25/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0012-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.75	0.259	mg/kg	10	B4L0248	12/02/2024	12/05/2024	
Barium	161	8.93	"	"	"	"	"	
Cadmium	ND	0.0893	"	"	"	"	"	Ua
Copper	ND	8.93	"	"	"	"	"	Ua
Lead	4.10	0.893	"	"	"	"	"	
Nickel	4.95	0.893	"	"	"	"	"	
Selenium	ND	0.232	"	"	"	"	"	Ua
Silver	ND	0.0893	"	"	"	"	"	Ua
Zinc	ND	33.0	"	"	"	"	"	Ua

Total Metals 7196A

Hexavalent Chromium	ND	0.139	0.349	mg/kg dry	1	2724779	12/23/2024	12/30/2024	U
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112 High St.
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Joel Mason
Project Number: CIT.CO.0931
Project: Rhoades 22-35 #2

R22-35#2SHED@2'
11/25/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0012-03 (Soil)

Boron (DTPA Sorbitol)

Boron	15.0		1.01	mg/L	10	B4L0318	12/03/2024	12/06/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	1030		25.0	mg/kg	1	B4L0241	12/02/2024	12/04/2024	
Residual Range Organics (C28-C40)	4100		100	"	"	"	"	"	

Surrogate: o-Terphenyl	76.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0263	12/02/2024	12/03/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	

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Joel Mason
 Project Number: CIT.CO.0931
 Project: Rhoades 22-35 #2

R22-35#2SHED@2'
11/25/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0012-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	98.1 %	70-130		B4L02 63	12/02/2024	12/03/2024
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Metals by Saturated Paste by EPA 6010

Calcium	5.28	0.499	meq/L	10	[CALC]	12/03/2024	12/06/2024
Magnesium	1.99	0.823	"	"	"	"	"
Sodium	7.43	0.435	"	"	"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4L0243	12/02/2024	12/03/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua

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Jen Pellegrini For Jordan A. Bynon, Project Manager

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.0931
 Project: Rhoades 22-35 #2

R22-35#2SHED@2'
11/25/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0012-03 (Soil)

PAH by EPA 8270E extracted via 3580A

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4L0243	12/02/2024	12/03/2024	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	96.8 %	60-130	"	"	"	"	"
Surrogate: Anthracene-d10	99.3 %	60-130	"	"	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"	"	"

pH in Soil by 9045D

pH	8.29	pH Units	1	B4L0328	12/03/2024	12/05/2024
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SAR by 20B Saturated Paste

SAR	3.90	0.0100	SAR	1	B4L0310	12/03/2024	12/06/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.14	0.00500	mmhos/cm	1	B4L0328	12/03/2024	12/05/2024
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Table 915 metals by EPA 6020B

Arsenic	1.71	0.269	mg/kg	10	B4L0248	12/02/2024	12/05/2024
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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.0931
 Project: Rhoades 22-35 #2

R22-35#2SHED@2'
11/25/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0012-03 (Soil)

Table 915 metals by EPA 6020B

Barium	55.0		9.28	mg/kg	10	B4L0248	12/02/2024	12/05/2024	
Cadmium	ND		0.0928	"	"	"	"	"	Ua
Copper	ND		9.28	"	"	"	"	"	Ua
Lead	4.13		0.928	"	"	"	"	"	
Nickel	3.65		0.928	"	"	"	"	"	
Selenium	ND		0.241	"	"	"	"	"	Ua
Silver	ND		0.0928	"	"	"	"	"	Ua
Zinc	ND		34.3	"	"	"	"	"	Ua

Total Metals 7196A

Hexavalent Chromium	ND	0.169	0.421	mg/kg dry	1	2724779	12/23/2024	12/30/2024	U
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Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.0931
Project: Rhoades 22-35 #2

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 B4L0241 - EPA 3550B										
Blank (B4L0241-BLK1)										
					Prepared: 12/02/2024 Analyzed: 12/04/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	19		"	24.9		77.0	50-150			

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Joel Mason
 Project Number: CIT.CO.0931
 Project: Rhoades 22-35 #2

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 B4L0241 - EPA 3550B

LCS (B4L0241-BS1)

Prepared: 12/02/2024 Analyzed: 12/04/2024

Diesel (C10-C28)	918	50.0	mg/kg	1000		91.8	70-130			
Residual Range Organics (C28-C40)	927	200	"	1000		92.7	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.2	50-150			

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.0931
Project: Rhoades 22-35 #2

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 B4L0241 - EPA 3550B

Matrix Spike (B4L0241-MS1)	Source: E4K0900-01			Prepared: 12/02/2024 Analyzed: 12/04/2024						
Diesel (C10-C28)	934	50.0	mg/kg	1000	ND	93.4	70-130			
Residual Range Organics (C28-C40)	958	200	"	1000	ND	95.8	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.0	50-150			

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Joel Mason
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Project: Rhoades 22-35 #2

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 B4L0241 - EPA 3550B										
Matrix Spike Dup (B4L0241-MSD1)		Source: E4K0900-01			Prepared: 12/02/2024 Analyzed: 12/04/2024					
Diesel (C10-C28)	927	50.0	mg/kg	1000	ND	92.7	70-130	0.716	35	
Residual Range Organics (C28-C40)	963	200	"	1000	ND	96.3	70-130	0.597	35	
Surrogate: o-Terphenyl	43		"	49.8		86.4	50-150			

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 Project Number: CIT.CO.0931
 Project: Rhoades 22-35 #2

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 B4L0263 - EPA 5030 (soil)

Blank (B4L0263-BLK1)

Prepared: 12/02/2024 Analyzed: 12/03/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	91.8		70-130			
Surrogate: Toluene-d8	0.14		"	0.125	109		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	92.6		70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Absaroka
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 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.0931
 Project: Rhoades 22-35 #2

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 B4L0263 - EPA 5030 (soil)

LCS (B4L0263-BS1)

Prepared: 12/02/2024 Analyzed: 12/03/2024

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.0927	0.00200	"	0.100		92.7	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.0959	0.00380	"	0.100		95.9	70-130			
Toluene	0.0978	0.00200	"	0.100		97.8	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.214	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Project: Rhoades 22-35 #2

**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 B4L0263 - EPA 5030 (soil)

Matrix Spike (B4L0263-MS1)	Source: E4L0010-01		Prepared: 12/02/2024 Analyzed: 12/03/2024							
1,2,4-Trimethylbenzene	0.0769	0.00200	mg/kg	0.100	ND	76.9	70-130			
1,3,5-Trimethylbenzene	0.0761	0.00200	"	0.100	ND	76.1	70-130			
Benzene	0.0828	0.00200	"	0.100	ND	82.8	70-130			
Ethylbenzene	0.0870	0.00200	"	0.100	ND	87.0	70-130			
Naphthalene	0.0825	0.00380	"	0.100	ND	82.5	70-130			
Toluene	0.0842	0.00200	"	0.100	ND	84.2	70-130			
o-Xylene	0.0870	0.00200	"	0.100	ND	87.0	70-130			
m,p-Xylene	0.175	0.00400	"	0.200	ND	87.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Buffalo WY 82834

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Project: Rhoades 22-35 #2

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 B4L0263 - EPA 5030 (soil)

Matrix Spike Dup (B4L0263-MSD1)	Source: E4L0010-01			Prepared: 12/02/2024 Analyzed: 12/03/2024						
1,2,4-Trimethylbenzene	0.0731	0.00200	mg/kg	0.100	ND	73.1	70-130	5.15	20	
1,3,5-Trimethylbenzene	0.0727	0.00200	"	0.100	ND	72.7	70-130	4.62	20	
Benzene	0.0802	0.00200	"	0.100	ND	80.2	70-130	3.26	20	
Ethylbenzene	0.0832	0.00200	"	0.100	ND	83.2	70-130	4.47	20	
Naphthalene	0.0800	0.00380	"	0.100	ND	80.0	70-130	3.10	20	
Toluene	0.0799	0.00200	"	0.100	ND	79.9	70-130	5.24	20	
o-Xylene	0.0835	0.00200	"	0.100	ND	83.5	70-130	4.01	20	
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.4	70-130	4.55	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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 Buffalo WY 82834

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 Project Number: CIT.CO.0931
 Project: Rhoades 22-35 #2

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 B4L0248 - EPA 3050B

Blank (B4L0248-BLK1)

Prepared: 12/02/2024 Analyzed: 12/05/2024

Arsenic	ND	0.290	mg/kg							Ua
Barium	ND	10.0	"							Ua
Cadmium	ND	0.100	"							Ua
Copper	ND	10.0	"							Ua
Lead	ND	1.00	"							Ua
Nickel	ND	1.00	"							Ua
Selenium	ND	0.260	"							Ua
Silver	ND	0.100	"							Ua
Zinc	ND	37.0	"							Ua

LCS (B4L0248-BS1)

Prepared: 12/02/2024 Analyzed: 12/05/2024

Arsenic	5.36	0.290	mg/kg	5.00		107	80-120			
Barium	489	10.0	"	500		97.8	80-120			
Cadmium	5.09	0.100	"	5.00		102	80-120			
Copper	52.4	10.0	"	50.0		105	80-120			
Lead	5.47	1.00	"	5.00		109	80-120			
Nickel	5.24	1.00	"	5.00		105	80-120			
Selenium	4.67	0.260	"	5.00		93.4	80-120			
Silver	5.35	0.100	"	5.00		107	80-120			
Zinc	54.1	37.0	"	50.0		108	80-120			

Matrix Spike (B4L0248-MS1)

Source: E4L0012-03

Prepared: 12/02/2024 Analyzed: 12/05/2024

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 Project: Rhoades 22-35 #2

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 B4L0248 - EPA 3050B

Matrix Spike (B4L0248-MS1)	Source: E4L0012-03			Prepared: 12/02/2024 Analyzed: 12/05/2024						
Arsenic	6.88	0.273	mg/kg	4.70	1.71	110	75-125			
Barium	570	9.41	"	470	55.0	110	75-125			
Cadmium	5.29	0.0941	"	4.70	0.0687	111	75-125			
Copper	57.1	9.41	"	47.0	4.52	112	75-125			
Lead	8.79	0.941	"	4.70	4.13	99.1	75-125			
Nickel	8.34	0.941	"	4.70	3.65	99.6	75-125			
Selenium	5.04	0.245	"	4.70	0.0641	106	75-125			
Silver	5.43	0.0941	"	4.70	0.0130	115	75-125			
Zinc	68.7	34.8	"	47.0	16.7	111	75-125			

Matrix Spike Dup (B4L0248-MSD1)	Source: E4L0012-03			Prepared: 12/02/2024 Analyzed: 12/05/2024						
Arsenic	7.16	0.271	mg/kg	4.67	1.71	117	75-125	3.98	20	
Barium	582	9.35	"	467	55.0	113	75-125	2.09	20	
Cadmium	5.34	0.0935	"	4.67	0.0687	113	75-125	0.898	20	
Copper	58.3	9.35	"	46.7	4.52	115	75-125	2.08	20	
Lead	9.35	0.935	"	4.67	4.13	112	75-125	6.13	20	
Nickel	8.84	0.935	"	4.67	3.65	111	75-125	5.87	20	
Selenium	4.93	0.243	"	4.67	0.0641	104	75-125	2.22	20	
Silver	5.52	0.0935	"	4.67	0.0130	118	75-125	1.73	20	
Zinc	71.0	34.6	"	46.7	16.7	116	75-125	3.31	20	

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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.0931
 Project: Rhoades 22-35 #2

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4L0243 - EPA 3580

Blank (B4L0243-BLK1)

Prepared: 12/02/2024 Analyzed: 12/03/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		97.9	60-130			
Surrogate: Pyrene-d10	220		"	200		108	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		95.0	60-130			

LCS (B4L0243-BS1)

Prepared: 12/02/2024 Analyzed: 12/03/2024

1-Methylnaphthalene	0.213	0.002	mg/kg	0.200		107	70-130			
2-Methylnaphthalene	0.208	0.002	"	0.200		104	70-130			
Acenaphthene	0.207	0.020	"	0.200		104	70-130			
Anthracene	0.189	0.020	"	0.200		94.5	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.0931
Project: Rhoades 22-35 #2

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4L0243 - EPA 3580

LCS (B4L0243-BS1)

Prepared: 12/02/2024 Analyzed: 12/03/2024

Benzo (a) anthracene	0.183	0.005	mg/kg	0.200		91.6	70-130			
Benzo (a) pyrene	0.208	0.020	"	0.200		104	70-130			
Benzo (b) fluoranthene	0.222	0.020	"	0.200		111	70-130			
Benzo (g,h,i) perylene	0.211	0.020	"	0.200		106	70-130			
Benzo (k) fluoranthene	0.209	0.020	"	0.200		105	70-130			
Chrysene	0.202	0.020	"	0.200		101	70-130			
Dibenz (a,h) anthracene	0.230	0.020	"	0.200		115	70-130			
Fluoranthene	0.240	0.020	"	0.200		120	70-130			
Fluorene	0.209	0.020	"	0.200		104	70-130			
Indeno (1,2,3-cd) pyrene	0.227	0.020	"	0.200		114	70-130			
Naphthalene	0.207	0.002	"	0.200		103	70-130			
Phenanthrene	0.210	0.020	"	0.200		105	70-130			
Pyrene	0.234	0.020	"	0.200		117	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		94.0	60-130			
Surrogate: Pyrene-d10	230		"	200		114	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.4	60-130			

Matrix Spike (B4L0243-MS1)

Source: E4L0010-01

Prepared: 12/02/2024 Analyzed: 12/03/2024

1-Methylnaphthalene	0.259	0.002	mg/kg	0.200	0.031	114	70-130			
2-Methylnaphthalene	0.266	0.002	"	0.200	0.034	116	70-130			
Acenaphthene	0.262	0.020	"	0.200	ND	131	70-130			
Anthracene	0.252	0.020	"	0.200	0.015	118	70-130			
Benzo (a) anthracene	0.261	0.005	"	0.200	0.013	124	70-130			
Benzo (a) pyrene	0.238	0.020	"	0.200	0.006	116	70-130			
Benzo (b) fluoranthene	0.190	0.020	"	0.200	0.021	84.6	70-130			
Benzo (g,h,i) perylene	0.213	0.020	"	0.200	0.030	91.8	70-130			

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.0931
Project: Rhoades 22-35 #2

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4L0243 - EPA 3580

Matrix Spike (B4L0243-MS1)	Source: E4L0010-01			Prepared: 12/02/2024 Analyzed: 12/03/2024						
Benzo (k) fluoranthene	0.204	0.020	mg/kg	0.200	0.003	101	70-130			
Chrysene	0.293	0.020	"	0.200	0.018	137	70-130			QM-07
Dibenz (a,h) anthracene	0.226	0.020	"	0.200	0.003	111	70-130			
Fluoranthene	0.185	0.020	"	0.200	0.008	88.3	70-130			
Fluorene	0.255	0.020	"	0.200	0.022	117	70-130			
Indeno (1,2,3-cd) pyrene	0.240	0.020	"	0.200	0.005	118	70-130			
Naphthalene	0.233	0.002	"	0.200	0.007	113	70-130			
Phenanthrene	0.300	0.020	"	0.200	0.069	115	70-130			
Pyrene	0.215	0.020	"	0.200	0.052	81.6	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		94.5	60-130			
Surrogate: Anthracene-d10	220		"	200		111	60-130			
Surrogate: Pyrene-d10	150		"	200		77.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

Matrix Spike Dup (B4L0243-MSD1)	Source: E4L0010-01			Prepared: 12/02/2024 Analyzed: 12/03/2024						
1-Methylnaphthalene	0.256	0.002	mg/kg	0.200	0.031	112	70-130	1.24	20	
2-Methylnaphthalene	0.251	0.002	"	0.200	0.034	109	70-130	5.67	20	
Acenaphthene	0.241	0.020	"	0.200	ND	121	70-130	8.15	20	
Anthracene	0.238	0.020	"	0.200	0.015	111	70-130	5.98	20	
Benzo (a) anthracene	0.248	0.005	"	0.200	0.013	117	70-130	5.07	20	
Benzo (a) pyrene	0.227	0.020	"	0.200	0.006	111	70-130	4.43	20	
Benzo (b) fluoranthene	0.205	0.020	"	0.200	0.021	92.0	70-130	7.47	20	
Benzo (g,h,i) perylene	0.217	0.020	"	0.200	0.030	93.6	70-130	1.66	20	
Benzo (k) fluoranthene	0.228	0.020	"	0.200	0.003	113	70-130	10.9	20	
Chrysene	0.326	0.020	"	0.200	0.018	154	70-130	10.6	20	QM-07
Dibenz (a,h) anthracene	0.230	0.020	"	0.200	0.003	114	70-130	1.93	20	
Fluoranthene	0.195	0.020	"	0.200	0.008	93.2	70-130	5.17	20	

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.0931
Project: Rhoades 22-35 #2

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4L0243 - EPA 3580

Matrix Spike Dup (B4L0243-MSD1)	Source: E4L0010-01			Prepared: 12/02/2024 Analyzed: 12/03/2024						
Fluorene	0.245	0.020	mg/kg	0.200	0.022	112	70-130	3.82	20	
Indeno (1,2,3-cd) pyrene	0.232	0.020	"	0.200	0.005	114	70-130	3.22	20	
Naphthalene	0.219	0.002	"	0.200	0.007	106	70-130	6.35	20	
Phenanthrene	0.257	0.020	"	0.200	0.069	93.9	70-130	15.3	20	
Pyrene	0.230	0.020	"	0.200	0.052	88.6	70-130	6.35	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	190		"	200		93.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.5	60-130			

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.0931
Project: Rhoades 22-35 #2

Classical Chemistry Parameters - 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 B4L0310 - Saturated Paste Metals

Blank (B4L0310-BLK1)

Prepared: 12/03/2024 Analyzed: 12/06/2024

SAR	ND	0.0100	SAR							Ua
Calcium PPM	ND	10.0	mg/L							Ua
Magnesium PPM	ND	10.0	"							Ua
Sodium PPM	ND	10.0	"							Ua

Duplicate (B4L0310-DUP1)

Source: E4L0012-01

Prepared: 12/03/2024 Analyzed: 12/06/2024

Calcium PPM	23.8	10.0	mg/L		21.8			8.51	50	
SAR	ND	0.0100	SAR		0.760				200	Ua
Magnesium PPM	8.46	10.0	mg/L		8.05			4.97	50	Ua
Sodium PPM	16.0	10.0	"		16.3			2.04	50	

Batch B4L0318 - DTPA Sorbitol Preparation

Blank (B4L0318-BLK1)

Prepared: 12/03/2024 Analyzed: 12/05/2024

Boron	ND	0.100	mg/L							Ua
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Duplicate (B4L0318-DUP1)

Source: E4K0772-01

Prepared: 12/03/2024 Analyzed: 12/05/2024

Boron	0.132	0.101	mg/L		0.127			3.33	50	
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Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.0931
 Project: Rhoades 22-35 #2

Saturated Paste - 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 B4L0328 - Saturated Paste pH/EC

Blank (B4L0328-BLK1)

Prepared: 12/03/2024 Analyzed: 12/05/2024

Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
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Duplicate (B4L0328-DUP1)

Source: E4L0012-01

Prepared: 12/03/2024 Analyzed: 12/05/2024

pH	8.43		pH Units		8.46			0.355	25	
Specific Conductance (EC)	0.332	0.00500	mmhos/cm		0.340			2.38	25	

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.0931
 Project: Rhoades 22-35 #2

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2724779 - SW846 3060A										
BLANK (1205957900-BLK)					Prepared: 12/23/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	ND	0.394	mg/kg				-			U
LCS (1205957901-BKS)					Prepared: 12/23/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	3.86	0.383	mg/kg	3.83		101	80-120			
DUP (1205957902 D)					Source: 698015001 Prepared: 12/23/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	ND	0.411	mg/kg dry		<0.165		0-50	N/A	50	U
MS (1205957903 S)					Source: 698015001 Prepared: 12/23/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	2.05	0.435	mg/kg dry	4.35	<0.174	44	75-125			
DUP (1205957904 D)					Source: 698017006 Prepared: 12/23/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	ND	0.416	mg/kg dry		<0.166		0-50	N/A	50	U
MS (1205957905 S)					Source: 698017006 Prepared: 12/23/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	1.44	0.388	mg/kg dry	3.88	<0.155	35.3	75-125			
ILCS (1205957913-ILCS)					Prepared: 12/23/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	7.64	0.360	mg/kg	7.39		103	80-120			

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.0931
Project: Rhoades 22-35 #2

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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



Jen Pellegrini For Jordan A. Bynon, Project Manager

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**Absaroka
Joel Mason
112 High St.**

January 07, 2025

Buffalo WY 82834

Project Name - Rhoades 22-35 #2

Project Number - CIT.CO.0931

Attached are your analytical results for Rhoades 22-35 #2 received by Origins Laboratory November 27, 2024. This project is associated with Origins project number E4L0008-01.

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.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.0931
Project: Rhoades 22-35 #2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
R22-35#2BG@2'	E4L0008-01	Soil	November 26, 2024 12:33	11/27/2024 12:33

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.0931
 Project: Rhoades 22-35 #2

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

Sample Receipt Checklist

Origins Work Order: E400008 Client: Absaroka
 Client Project ID: Rhoades 22-35 #2

Checklist Completed by: BT / WS Shipped Via: NO
 Date/time completed: 12/2/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(es) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 3.7 °C / _____ °C (Describe) _____ °C
 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⁾ ?	/			
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 H I s 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 HNO ₃ , HCl, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc ₂ +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.

Reviewed by (Project Manager) AS Date/Time Reviewed 12/3/12

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.0931
Project: Rhoades 22-35 #2

R22-35#2BG@2'

11/26/2024 12:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4L0008-01 (Soil)**

Boron (DTPA Sorbitol)

Boron	ND		0.0999	mg/L	1	B4L0214	12/02/2024	12/03/2024	Ua
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Metals by Saturated Paste by EPA 6010

Calcium	0.912		0.499	meq/L	10	[CALC]	12/02/2024	12/03/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.32			pH Units	1	B4L0228	12/02/2024	12/03/2024	
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SAR by 20B Saturated Paste

SAR	0.474		0.0100	SAR	1	B4L0221	12/02/2024	12/03/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.247		0.00500	mmhos/cm	1	B4L0228	12/02/2024	12/03/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.13		0.269	mg/kg	10	B4L0262	12/05/2024	12/07/2024	
Barium	86.6		9.29	"	"	"	"	"	
Cadmium	ND		0.0929	"	"	"	"	"	Ua

Origins Laboratory



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.0931
Project: Rhoades 22-35 #2

R22-35#2BG@2'

11/26/2024 12:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4L0008-01 (Soil)**

Table 915 metals by EPA 6020B

Copper	ND		9.29	mg/kg	10	B4L0262	12/05/2024	12/07/2024	Ua
Lead	5.40		0.929	"	"	"	"	"	
Nickel	6.78		0.929	"	"	"	"	"	
Selenium	ND		0.241	"	"	"	"	"	Ua
Silver	ND		0.0929	"	"	"	"	"	Ua
Zinc	ND		34.4	"	"	"	"	"	Ua

Total Metals 7196A

Hexavalent Chromium	ND	0.142	0.355	mg/kg dry	1	2725603	12/26/2024	01/02/2025	U
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Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.0931
 Project: Rhoades 22-35 #2

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 B4L0262 - EPA 3050B

Blank (B4L0262-BLK1)

Prepared: 12/05/2024 Analyzed: 12/07/2024

Arsenic	ND	0.290	mg/kg							Ua
Barium	ND	10.0	"							Ua
Cadmium	ND	0.100	"							Ua
Copper	ND	10.0	"							Ua
Lead	ND	1.00	"							Ua
Nickel	ND	1.00	"							Ua
Selenium	ND	0.260	"							Ua
Silver	ND	0.100	"							Ua
Zinc	ND	37.0	"							Ua

LCS (B4L0262-BS1)

Prepared: 12/05/2024 Analyzed: 12/07/2024

Arsenic	5.75	0.290	mg/kg	5.00		115	80-120
Barium	585	10.0	"	500		117	80-120
Cadmium	5.84	0.100	"	5.00		117	80-120
Copper	53.9	10.0	"	50.0		108	80-120
Lead	5.66	1.00	"	5.00		113	80-120
Nickel	5.82	1.00	"	5.00		116	80-120
Selenium	5.83	0.260	"	5.00		117	80-120
Silver	5.85	0.100	"	5.00		117	80-120
Zinc	56.3	37.0	"	50.0		113	80-120

Matrix Spike (B4L0262-MS1)

Source: E4L0008-01

Prepared: 12/05/2024 Analyzed: 12/07/2024

Arsenic	7.62	0.269	mg/kg	4.64	3.13	96.7	75-125
Barium	599	9.29	"	464	86.6	110	75-125
Cadmium	5.07	0.0929	"	4.64	0.0882	107	75-125
Copper	51.8	9.29	"	46.4	5.03	101	75-125
Lead	10.7	0.929	"	4.64	5.40	114	75-125

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.0931
Project: Rhoades 22-35 #2

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 B4L0262 - EPA 3050B

Matrix Spike (B4L0262-MS1)

Source: E4L0008-01

Prepared: 12/05/2024 Analyzed: 12/07/2024

Nickel	11.5	0.929	mg/kg	4.64	6.78	102	75-125			
Selenium	5.13	0.242	"	4.64	0.152	107	75-125			
Silver	5.01	0.0929	"	4.64	0.0176	107	75-125			
Zinc	71.4	34.4	"	46.4	25.2	99.4	75-125			

Matrix Spike Dup (B4L0262-MSD1)

Source: E4L0008-01

Prepared: 12/05/2024 Analyzed: 12/07/2024

Arsenic	8.23	0.258	mg/kg	4.45	3.13	115	75-125	7.74	20	
Barium	612	8.89	"	445	86.6	118	75-125	2.14	20	
Cadmium	5.18	0.0889	"	4.45	0.0882	115	75-125	2.20	20	
Copper	54.8	8.89	"	44.5	5.03	112	75-125	5.63	20	
Lead	11.7	0.889	"	4.45	5.40	143	75-125	9.54	20	QM-07
Nickel	12.6	0.889	"	4.45	6.78	132	75-125	9.19	20	QM-07
Selenium	5.12	0.231	"	4.45	0.152	112	75-125	0.108	20	
Silver	5.16	0.0889	"	4.45	0.0176	116	75-125	2.99	20	
Zinc	76.4	32.9	"	44.5	25.2	115	75-125	6.75	20	

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: CIT.CO.0931
 Project: Rhoades 22-35 #2

Classical Chemistry Parameters - 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 B4L0214 - DTPA Sorbitol Preparation

Blank (B4L0214-BLK1)

Prepared: 12/02/2024 Analyzed: 12/03/2024

Boron	ND	0.100	mg/L							Ua
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Duplicate (B4L0214-DUP1)

Source: E4K0902-08

Prepared: 12/02/2024 Analyzed: 12/03/2024

Boron	0.246	0.0989	mg/L		0.235			4.64	50	
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Batch B4L0221 - Saturated Paste Metals

Blank (B4L0221-BLK1)

Prepared: 12/02/2024 Analyzed: 12/03/2024

SAR	ND	0.0100	SAR							Ua
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Calcium PPM	ND	10.0	mg/L							Ua
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Magnesium PPM	ND	10.0	"							Ua
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Sodium PPM	ND	10.0	"							Ua
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Duplicate (B4L0221-DUP1)

Source: E4K0902-08

Prepared: 12/02/2024 Analyzed: 12/03/2024

SAR	ND	0.0100	SAR		2.73			200		Ua
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Calcium PPM	12.8	10.0	mg/L		12.9			0.776	50	
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Magnesium PPM	8.01	10.0	"		8.07			0.746	50	Ua
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Sodium PPM	52.8	10.0	"		50.8			3.77	50	
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Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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.

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: CIT.CO.0931
Project: Rhoades 22-35 #2

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L0228 - Saturated Paste pH/EC										
Blank (B4L0228-BLK1)					Prepared: 12/02/2024 Analyzed: 12/03/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
Duplicate (B4L0228-DUP1)					Source: E4K0902-08 Prepared: 12/02/2024 Analyzed: 12/03/2024					
pH	8.54		pH Units		8.50			0.469	25	
Specific Conductance (EC)	0.396	0.00500	mmhos/cm		0.398			0.378	25	

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Joel Mason
 Project Number: CIT.CO.0931
 Project: Rhoades 22-35 #2

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2725603 - SW846 3060A										
BLANK (1205959594-BLK)					Prepared: 12/26/2024 Analyzed: 01/02/2025					
Hexavalent Chromium	ND	0.302	mg/kg				-			U
LCS (1205959595-BKS)					Prepared: 12/26/2024 Analyzed: 01/02/2025					
Hexavalent Chromium	3.19	0.319	mg/kg	3.19		99.9	80-120			
DUP (1205959596 D)					Source: E4L0008-01 Prepared: 12/26/2024 Analyzed: 01/02/2025					
Hexavalent Chromium	ND	0.355	mg/kg dry		<0.142		0-50	N/A	50	U
MS (1205959597 S)					Source: E4L0008-01 Prepared: 12/26/2024 Analyzed: 01/02/2025					
Hexavalent Chromium	3.11	0.355	mg/kg dry	3.55	<0.142	85.9	75-125			
DUP (1205959598 D)					Source: 698394001 Prepared: 12/26/2024 Analyzed: 01/02/2025					
Hexavalent Chromium	ND	0.248	mg/kg dry		<0.0990		0-50	N/A	50	U
MS (1205959599 S)					Source: 698394001 Prepared: 12/26/2024 Analyzed: 01/02/2025					
Hexavalent Chromium	2.42	0.294	mg/kg dry	2.94	<0.118	80.7	75-125			
ILCS (1205959600-ILCS)					Prepared: 12/26/2024 Analyzed: 01/02/2025					
Hexavalent Chromium	5.55	0.266	mg/kg	5.38		103	80-120			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Joel Mason
Project Number: CIT.CO.0931
Project: Rhoades 22-35 #2

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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



Jen Pellegrini For Jordan A. Bynon, Project Manager

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