



**Verdad Resources**

**Dean Wagoner**

**1125 17th St Suite 550**

**Denver**

**CO**

**80202**

**January 31, 2025**

**Project Name - County Line 3229**

**Project Number - [none]**

Attached are your analytical results for County Line 3229 received by Origins Laboratory January 09, 2025. This project is associated with Origins project number E5A0106-01.

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**

Verdad Resources

1125 17th St Suite 550

Denver

CO

80202

Dean Wagoner

Project Number: [none]

Project: County Line 3229

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
North Wall	E5A0106-01	Soil	January 8, 2025 15:40	01/09/2025 09:42
East Wall	E5A0106-02	Soil	January 8, 2025 15:45	01/09/2025 09:42
South Wall	E5A0106-03	Soil	January 8, 2025 15:50	01/09/2025 09:42
West Wall	E5A0106-04	Soil	January 8, 2025 15:55	01/09/2025 09:42
Floor 1	E5A0106-05	Soil	January 8, 2025 16:00	01/09/2025 09:42

Origins Laboratory



Jen Pellegrini, Project Manager

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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

# ORIGINS

## ORIGINS WORK ORDER

es/1000<sup>ER</sup>

Page 1 of 1

LABORATORY INC.

Client: Verdad Resources

Project Manager: Dean Wagoner

Key:

Address: 1125 17th Street Suite 600

Project Name: Can't Line 329

W= Water

Denver CO 80202

Project Number:

GW=Groundwater

Telephone Number: 720 845 4900

Collected By: Dean Williams

SW=Surface Water

Email Address: mcuallan@wonderrecruiter.com

Invoice/Billing Info: duanwen@verdadresources.com

WW=Waste Water

3-Sol | Su=Solid | U=Ull | A=Air | G=Gas | UNP=Unpres | HCl=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

[illegible]

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Dean Wagner	1-9-03	942	EW	11/9/75	942
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Turnaround Time

☐ SAME DAY ☐ 24 Hr

☐ 48 Hr ☒ 72 Hr

☐ Standard

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | [originslab.com](http://originslab.com)

Temp Received- 3.6

Received On Ice? ☒ Yes ☐ No

For Lab Sample Receiving Only

☐ Standard☐ 48 hr ☒ 72 hr☐ SAME ☐ 24 H  
DAY

### Turnaround Time

## Origins Laboratory

Jeff Pelligrini

**Jen Pellegrini, Project Manager**

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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

Origins Laboratory

## Sample Receipt Checklist

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

Origins Work Order: ESA0106

Client: Verdad

Client Project ID: County Line

Checklist Completed by: [Signature]

Date/time completed: 1/10/12

Shipped Via: HL  
(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: 1 13.4°C

(Describe)

Thermometer ID: 7007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <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)			<input checked="" type="checkbox"/>	
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) [Signature]

1/10/12  
Date/Time Reviewed

Origins Laboratory

Jen Pellegrini

Jen Pellegrini, Project Manager

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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## North Wall

1/8/2025 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E5A0106-01 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.207	0.0985	mg/L	1	B5A0916	01/09/2025	01/10/2025
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B5A0903	01/09/2025	01/10/2025	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	81.6 %	50-150	"	"	"
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B5A0902	01/09/2025	01/09/2025	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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Origins Laboratory



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Jen Pellegrini, Project Manager

Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## North Wall

1/8/2025 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E5A0106-01 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	105 %	70-130	B5A09 02	01/09/2025	01/09/2025
Surrogate: 4-Bromofluorobenzene	98.8 %	70-130	"	"	"

### Metals by Saturated Paste by EPA 6010

Calcium	0.998	0.499	meq/L	10	[CALC]	01/09/2025	01/10/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.22	0.435	"	"	"	"	"

### PAH by 3541/8270

1-Methylnaphthalene	ND	0.00117	0.00355	mg/kg dry	1	2733894	01/15/2025	01/15/2025	U
2-Methylnaphthalene	ND	0.00117	0.00355	"	"	"	"	"	U
Acenaphthene	ND	0.00117	0.00355	"	"	"	"	"	U
Anthracene	ND	0.00117	0.00355	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00117	0.00355	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00117	0.00355	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00117	0.00355	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00117	0.00355	"	"	"	"	"	U
Chrysene	ND	0.00117	0.00355	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00117	0.00355	"	"	"	"	"	U
Fluoranthene	ND	0.00117	0.00355	"	"	"	"	"	U

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Jen Pellegrini, Project Manager

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Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## North Wall

1/8/2025 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## GEL Laboratories, LLC

### E5A0106-01 (Soil)

### PAH by 3541/8270

Fluorene	ND	0.00117	0.00355	mg/kg dry	1	2733894	01/15/2025	01/15/2025	U
Indeno(1,2,3-cd)pyrene	ND	0.00117	0.00355	"	"	"	"	"	U
Naphthalene	ND	0.00117	0.00355	"	"	"	"	"	U
Pyrene	ND	0.00117	0.00355	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 48 % 22-135 " " "

### pH in Soil by 9045D

pH 8.37 pH Units 1 B5A0919 01/09/2025 01/10/2025

### SAR by 20B Saturated Paste

SAR 1.42 0.0100 SAR 1 B5A0913 01/09/2025 01/10/2025

### Specific Conductance Mod. 9050A

Specific Conductance (EC) 0.316 0.00500 mmhos/cm 1 B5A0919 01/09/2025 01/10/2025

### Table 915 metals by EPA 6020B

Arsenic	3.13	0.249	mg/kg	10	B5A0925	01/09/2025	01/10/2025
Barium	87.1	8.60	"	"	"	"	"
Cadmium	0.0860	0.0860	"	"	"	"	"

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Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## North Wall

1/8/2025 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E5A0106-01 (Soil)

### Table 915 metals by EPA 6020B

Copper	ND	8.60	mg/kg	10	B5A0925	01/09/2025	01/10/2025	Ua
Lead	5.75	0.860	"	"	"	"	"	
Nickel	6.24	0.860	"	"	"	"	"	
Selenium	ND	0.223	"	"	"	"	"	Ua
Silver	ND	0.0860	"	"	"	"	"	Ua
Zinc	ND	31.8	"	"	"	"	"	Ua

### Total Metals 7196A

Hexavalent Chromium	ND	0.121	0.303	mg/kg dry	1	2733646	01/20/2025	01/21/2025	U
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Origins Laboratory



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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## East Wall

1/8/2025 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E5A0106-02 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.210	0.100	mg/L	1	B5A0916	01/09/2025	01/10/2025	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B5A0903	01/09/2025	01/10/2025	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	80.9 %	50-150			"	"	"	
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B5A0902	01/09/2025	01/10/2025	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	108 %	70-130			"	"	"	
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Jen Pellegrini, Project Manager

Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## East Wall

1/8/2025 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E5A0106-02 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %	70-130	B5A09 02	01/09/2025	01/10/2025
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

### Metals by Saturated Paste by EPA 6010

Calcium	0.994	0.499	meq/L	10	[CALC]	01/09/2025	01/10/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.15	0.435	"	"	"	"	"

### PAH by 3541/8270

1-Methylnaphthalene	ND	0.00117	0.00353	mg/kg dry	1	2733894	01/15/2025	01/15/2025	U
2-Methylnaphthalene	ND	0.00117	0.00353	"	"	"	"	"	U
Acenaphthene	ND	0.00117	0.00353	"	"	"	"	"	U
Anthracene	ND	0.00117	0.00353	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00117	0.00353	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00117	0.00353	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00117	0.00353	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00117	0.00353	"	"	"	"	"	U
Chrysene	ND	0.00117	0.00353	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00117	0.00353	"	"	"	"	"	U
Fluoranthene	ND	0.00117	0.00353	"	"	"	"	"	U

Origins Laboratory



Jen Pellegrini, Project Manager

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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

**East Wall**  
**1/8/2025 3:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**E5A0106-02 (Soil)**

**PAH by 3541/8270**

Fluorene	ND	0.00117	0.00353	mg/kg dry	1	2733894	01/15/2025	01/15/2025	U
Indeno(1,2,3-cd)pyrene	ND	0.00117	0.00353	"	"	"	"	"	U
Naphthalene	ND	0.00117	0.00353	"	"	"	"	"	U
Pyrene	ND	0.00117	0.00353	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 61 % 22-135 " " "

**pH in Soil by 9045D**

pH	8.36			pH Units	1	B5A0919	01/09/2025	01/10/2025	
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**SAR by 20B Saturated Paste**

SAR	1.34		0.0100	SAR	1	B5A0913	01/09/2025	01/10/2025	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.302		0.00500	mmhos/cm	1	B5A0919	01/09/2025	01/10/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	3.14		0.287	mg/kg	10	B5A0925	01/09/2025	01/10/2025	
Barium	79.3		9.90	"	"	"	"	"	

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Jen Pellegrini, Project Manager

Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## East Wall

1/8/2025 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E5A0106-02 (Soil)

### Table 915 metals by EPA 6020B

Cadmium	ND	0.0990	mg/kg	10	B5A0925	01/09/2025	01/10/2025	Ua
Copper	ND	9.90	"	"	"	"	"	Ua
Lead	5.46	0.990	"	"	"	"	"	
Nickel	5.80	0.990	"	"	"	"	"	
Selenium	ND	0.257	"	"	"	"	"	Ua
Silver	ND	0.0990	"	"	"	"	"	Ua
Zinc	ND	36.6	"	"	"	"	"	Ua

### Total Metals 7196A

Hexavalent Chromium	ND	0.155	0.389	mg/kg dry	1	2733646	01/20/2025	01/21/2025	U
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Origins Laboratory



Jen Pellegrini, Project Manager

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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## South Wall

1/8/2025 3:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E5A0106-03 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.199	0.101	mg/L	1	B5A0916	01/09/2025	01/10/2025	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B5A0903	01/09/2025	01/10/2025	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	81.6 %	50-150			"	"	"	
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B5A0902	01/09/2025	01/10/2025	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	108 %	70-130			"	"	"	
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Jen Pellegrini, Project Manager

Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## South Wall

1/8/2025 3:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E5A0106-03 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %		70-130			B5A09 02	01/09/2025	01/10/2025	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

### Metals by Saturated Paste by EPA 6010

Calcium	0.968		0.499	meq/L	10	[CALC]	01/09/2025	01/10/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.20		0.435	"	"	"	"	"	

### PAH by 3541/8270

1-Methylnaphthalene	ND	0.00119	0.00361	mg/kg dry	1	2733894	01/15/2025	01/15/2025	U
2-Methylnaphthalene	ND	0.00119	0.00361	"	"	"	"	"	U
Acenaphthene	ND	0.00119	0.00361	"	"	"	"	"	U
Anthracene	ND	0.00119	0.00361	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00119	0.00361	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00119	0.00361	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00119	0.00361	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00119	0.00361	"	"	"	"	"	U
Chrysene	ND	0.00119	0.00361	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00119	0.00361	"	"	"	"	"	U
Fluoranthene	ND	0.00119	0.00361	"	"	"	"	"	U

Origins Laboratory



Jen Pellegrini, Project Manager

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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## South Wall

1/8/2025 3:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## GEL Laboratories, LLC

### E5A0106-03 (Soil)

### PAH by 3541/8270

Fluorene	ND	0.00119	0.00361	mg/kg dry	1	2733894	01/15/2025	01/15/2025	U
Indeno(1,2,3-cd)pyrene	ND	0.00119	0.00361	"	"	"	"	"	U
Naphthalene	ND	0.00119	0.00361	"	"	"	"	"	U
Pyrene	ND	0.00119	0.00361	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 57 % 22-135 " " "

### pH in Soil by 9045D

pH 8.38 pH Units 1 B5A0919 01/09/2025 01/10/2025

### SAR by 20B Saturated Paste

SAR 1.42 0.0100 SAR 1 B5A0913 01/09/2025 01/10/2025

### Specific Conductance Mod. 9050A

Specific Conductance (EC) 0.309 0.00500 mmhos/cm 1 B5A0919 01/09/2025 01/10/2025

### Table 915 metals by EPA 6020B

Arsenic 3.15 0.261 mg/kg 10 B5A0925 01/09/2025 01/10/2025  
Barium 83.6 9.00 " " " " "

Origins Laboratory



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Jen Pellegrini, Project Manager



Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## South Wall

1/8/2025 3:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E5A0106-03 (Soil)

### Table 915 metals by EPA 6020B

Cadmium	ND	0.0900	mg/kg	10	B5A0925	01/09/2025	01/10/2025	Ua
Copper	ND	9.00	"	"	"	"	"	Ua
Lead	5.54	0.900	"	"	"	"	"	
Nickel	6.10	0.900	"	"	"	"	"	
Selenium	ND	0.234	"	"	"	"	"	Ua
Silver	ND	0.0900	"	"	"	"	"	Ua
Zinc	ND	33.3	"	"	"	"	"	Ua

### Total Metals 7196A

Hexavalent Chromium	ND	0.0941	0.235	mg/kg dry	1	2733646	01/20/2025	01/21/2025	U
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Origins Laboratory



Jen Pellegrini, Project Manager

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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## West Wall

1/8/2025 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E5A0106-04 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.205	0.0992	mg/L	1	B5A0916	01/09/2025	01/10/2025	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B5A0903	01/09/2025	01/10/2025	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	79.9 %	50-150	"	"	"	"	"
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B5A0902	01/09/2025	01/10/2025	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	109 %	70-130	"	"	"	"	"
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Origins Laboratory



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Jen Pellegrini, Project Manager

Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## West Wall

1/8/2025 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E5A0106-04 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.3 %	70-130	B5A09 02	01/09/2025	01/10/2025
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

### Metals by Saturated Paste by EPA 6010

Calcium	0.946	0.499	meq/L	10	[CALC]	01/09/2025	01/10/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.15	0.435	"	"	"	"	"

### PAH by 3541/8270

1-Methylnaphthalene	ND	0.00119	0.00362	mg/kg dry	1	2733894	01/15/2025	01/15/2025	U
2-Methylnaphthalene	ND	0.00119	0.00362	"	"	"	"	"	U
Acenaphthene	ND	0.00119	0.00362	"	"	"	"	"	U
Anthracene	ND	0.00119	0.00362	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00119	0.00362	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00119	0.00362	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00119	0.00362	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00119	0.00362	"	"	"	"	"	U
Chrysene	ND	0.00119	0.00362	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00119	0.00362	"	"	"	"	"	U
Fluoranthene	ND	0.00119	0.00362	"	"	"	"	"	U

Origins Laboratory



Jen Pellegrini, Project Manager

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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## West Wall

1/8/2025 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## GEL Laboratories, LLC

### E5A0106-04 (Soil)

### PAH by 3541/8270

Fluorene	ND	0.00119	0.00362	mg/kg dry	1	2733894	01/15/2025	01/15/2025	U
Indeno(1,2,3-cd)pyrene	ND	0.00119	0.00362	"	"	"	"	"	U
Naphthalene	ND	0.00119	0.00362	"	"	"	"	"	U
Pyrene	ND	0.00119	0.00362	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 69 % 22-135 " " "

### pH in Soil by 9045D

pH 8.37 pH Units 1 B5A0919 01/09/2025 01/10/2025

### SAR by 20B Saturated Paste

SAR 1.37 0.0100 SAR 1 B5A0913 01/09/2025 01/10/2025

### Specific Conductance Mod. 9050A

Specific Conductance (EC) 0.293 0.00500 mmhos/cm 1 B5A0919 01/09/2025 01/10/2025

### Table 915 metals by EPA 6020B

Arsenic 3.24 0.254 mg/kg 10 B5A0925 01/09/2025 01/10/2025  
Barium 89.9 8.77 " " " " "

Origins Laboratory



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Jen Pellegrini, Project Manager

Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## West Wall

1/8/2025 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E5A0106-04 (Soil)

### Table 915 metals by EPA 6020B

Cadmium	ND	0.0877	mg/kg	10	B5A0925	01/09/2025	01/10/2025	Ua
Copper	ND	8.77	"	"	"	"	"	Ua
Lead	6.00	0.877	"	"	"	"	"	
Nickel	6.10	0.877	"	"	"	"	"	
Selenium	ND	0.228	"	"	"	"	"	Ua
Silver	ND	0.0877	"	"	"	"	"	Ua
Zinc	ND	32.5	"	"	"	"	"	Ua

### Total Metals 7196A

Hexavalent Chromium	ND	0.0979	0.245	mg/kg dry	1	2733646	01/20/2025	01/21/2025	U
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Origins Laboratory



Jen Pellegrini, Project Manager

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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

Floor 1  
1/8/2025 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E5A0106-05 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.215	0.0990	mg/L	1	B5A0916	01/09/2025	01/10/2025	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B5A0903	01/09/2025	01/10/2025	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	87.5 %	50-150	"	"	"	"	"	
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B5A0902	01/09/2025	01/10/2025	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	108 %	70-130	"	"	"	"	"	
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Origins Laboratory



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Jen Pellegrini, Project Manager

Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## Floor 1

1/8/2025 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E5A0106-05 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.0 %	70-130	B5A09 02	01/09/2025	01/10/2025
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

### Metals by Saturated Paste by EPA 6010

Calcium	1.26	0.499	meq/L	10	[CALC]	01/09/2025	01/10/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.73	0.435	"	"	"	"	"

### PAH by 3541/8270

1-Methylnaphthalene	ND	0.00118	0.00358	mg/kg dry	1	2733894	01/15/2025	01/15/2025	U
2-Methylnaphthalene	ND	0.00118	0.00358	"	"	"	"	"	U
Acenaphthene	ND	0.00118	0.00358	"	"	"	"	"	U
Anthracene	ND	0.00118	0.00358	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00118	0.00358	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00118	0.00358	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00118	0.00358	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00118	0.00358	"	"	"	"	"	U
Chrysene	ND	0.00118	0.00358	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00118	0.00358	"	"	"	"	"	U
Fluoranthene	ND	0.00118	0.00358	"	"	"	"	"	U

Origins Laboratory



Jen Pellegrini, Project Manager

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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

Floor 1  
1/8/2025 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC  
E5A0106-05 (Soil)

PAH by 3541/8270

Fluorene	ND	0.00118	0.00358	mg/kg dry	1	2733894	01/15/2025	01/15/2025	U
Indeno(1,2,3-cd)pyrene	ND	0.00118	0.00358	"	"	"	"	"	U
Naphthalene	ND	0.00118	0.00358	"	"	"	"	"	U
Pyrene	ND	0.00118	0.00358	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 61 % 22-135 " " "

pH in Soil by 9045D

pH	8.34			pH Units	1	B5A0919	01/09/2025	01/10/2025	
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SAR by 20B Saturated Paste

SAR	1.76		0.0100	SAR	1	B5A0913	01/09/2025	01/10/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.407		0.00500	mmhos/cm	1	B5A0919	01/09/2025	01/10/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.10		0.266	mg/kg	10	B5A0925	01/09/2025	01/10/2025	
Barium	74.1		9.18	"	"	"	"	"	

Origins Laboratory



Jen Pellegrini, Project Manager

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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## Floor 1

1/8/2025 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory E5A0106-05 (Soil)

### Table 915 metals by EPA 6020B

Cadmium	ND		0.0918	mg/kg	10	B5A0925	01/09/2025	01/10/2025	Ua
Copper	ND		9.18	"	"	"	"	"	Ua
Lead	5.59		0.918	"	"	"	"	"	
Nickel	5.94		0.918	"	"	"	"	"	
Selenium	ND		0.239	"	"	"	"	"	Ua
Silver	ND		0.0918	"	"	"	"	"	Ua
Zinc	ND		34.0	"	"	"	"	"	Ua

### Total Metals 7196A

Hexavalent Chromium	ND	0.144	0.359	mg/kg dry	1	2733646	01/20/2025	01/21/2025	U
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Origins Laboratory



Jen Pellegrini, Project Manager

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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## 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
Batch B5A0902 - EPA 5030 (soil)										
Blank (B5A0902-BLK1)					Prepared: 01/09/2025 Analyzed: 01/09/2025					
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	0.12		"	0.125		99.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	70-130			

Origins Laboratory



Jen Pellegrini, Project Manager

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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## 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 B5A0902 - EPA 5030 (soil)

#### LCS (B5A0902-BS1)

Prepared: 01/09/2025 Analyzed: 01/09/2025

1,2,4-Trimethylbenzene	0.0959	0.00200	mg/kg	0.100		95.9	70-130			
1,3,5-Trimethylbenzene	0.0979	0.00200	"	0.100		97.9	70-130			
Benzene	0.0884	0.00200	"	0.100		88.4	70-130			
Ethylbenzene	0.0949	0.00200	"	0.100		94.9	70-130			
Naphthalene	0.0880	0.00380	"	0.100		88.0	70-130			
Toluene	0.0890	0.00200	"	0.100		89.0	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.188	0.00400	"	0.200		94.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory



Jen Pellegrini, Project Manager

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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## 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 B5A0902 - EPA 5030 (soil)

Matrix Spike (B5A0902-MS1)		Source: E5A0075-01			Prepared: 01/09/2025 Analyzed: 01/09/2025					
1,2,4-Trimethylbenzene	0.0687	0.00200	mg/kg	0.100	ND	68.7	70-130			QM-07
1,3,5-Trimethylbenzene	0.0683	0.00200	"	0.100	ND	68.3	70-130			QM-07
Benzene	0.0721	0.00200	"	0.100	ND	72.1	70-130			
Ethylbenzene	0.0777	0.00200	"	0.100	ND	77.7	70-130			
Naphthalene	0.0636	0.00380	"	0.100	ND	63.6	70-130			QM-07
Toluene	0.0708	0.00200	"	0.100	ND	70.8	70-130			
o-Xylene	0.0730	0.00200	"	0.100	ND	73.0	70-130			
m,p-Xylene	0.151	0.00400	"	0.200	ND	75.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		120	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory



Jen Pellegrini, Project Manager

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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## 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
Batch B5A0902 - EPA 5030 (soil)										
Matrix Spike Dup (B5A0902-MSD1)			Source: E5A0075-01		Prepared: 01/09/2025 Analyzed: 01/09/2025					
1,2,4-Trimethylbenzene	0.0957	0.00200	mg/kg	0.100	ND	95.7	70-130	32.9	20	QR-02
1,3,5-Trimethylbenzene	0.0977	0.00200	"	0.100	ND	97.7	70-130	35.4	20	QR-02
Benzene	0.0902	0.00200	"	0.100	ND	90.2	70-130	22.3	20	QR-02
Ethylbenzene	0.0942	0.00200	"	0.100	ND	94.2	70-130	19.2	20	
Naphthalene	0.0918	0.00380	"	0.100	ND	91.8	70-130	36.3	20	QR-02
Toluene	0.0888	0.00200	"	0.100	ND	88.8	70-130	22.6	20	QR-02
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130	32.3	20	QR-02
m,p-Xylene	0.186	0.00400	"	0.200	ND	93.1	70-130	20.7	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory



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Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

**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
<b>Batch B5A0903 - EPA 3550B</b>										
<b>Blank (B5A0903-BLK1)</b>					Prepared: 01/09/2025 Analyzed: 01/10/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	20		"	24.9		80.2	50-150			

Origins Laboratory

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Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

**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 B5A0903 - EPA 3550B**

**LCS (B5A0903-BS1)**

Prepared: 01/09/2025 Analyzed: 01/10/2025

Diesel (C10-C28)	925	50.0	mg/kg	1000		92.5	70-130			
Residual Range Organics (C28-C40)	947	200	"	1000		94.7	70-130			
Surrogate: o-Terphenyl	41		"	49.8		81.6	50-150			

Origins Laboratory

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Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

**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 B5A0903 - EPA 3550B**

Matrix Spike (B5A0903-MS1)		Source: E5A0077-01			Prepared: 01/09/2025 Analyzed: 01/10/2025					
Diesel (C10-C28)	939	50.0	mg/kg	1000	ND	93.9	70-130			
Residual Range Organics (C28-C40)	967	200	"	1000	ND	96.7	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

Origins Laboratory

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Project Number: [none]  
Project: County Line 3229

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 B5A0903 - EPA 3550B

Matrix Spike Dup (B5A0903-MSD1)		Source: E5A0077-01			Prepared: 01/09/2025 Analyzed: 01/10/2025					
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130	7.56	35	
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130	7.04	35	
Surrogate: o-Terphenyl	42		"	49.8		84.1	50-150			

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Project Number: [none]  
Project: County Line 3229

## 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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## 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 B5A0925 - EPA 3050B

##### Blank (B5A0925-BLK1)

Prepared: 01/09/2025 Analyzed: 01/10/2025

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 (B5A0925-BS1)

Prepared: 01/09/2025 Analyzed: 01/10/2025

Arsenic	5.57	0.290	mg/kg	5.00		111	80-120
Barium	572	10.0	"	500		114	80-120
Cadmium	5.75	0.100	"	5.00		115	80-120
Copper	59.8	10.0	"	50.0		120	80-120
Lead	5.40	1.00	"	5.00		108	80-120
Nickel	5.75	1.00	"	5.00		115	80-120
Selenium	5.50	0.260	"	5.00		110	80-120
Silver	5.83	0.100	"	5.00		117	80-120
Zinc	59.3	37.0	"	50.0		119	80-120

##### Matrix Spike (B5A0925-MS1)

Source: E5A0105-01

Prepared: 01/09/2025 Analyzed: 01/10/2025

Origins Laboratory



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Project Number: [none]  
Project: County Line 3229

## 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
<b>Batch B5A0925 - EPA 3050B</b>										
<b>Matrix Spike (B5A0925-MS1)</b>			<b>Source: E5A0105-01</b>		Prepared: 01/09/2025 Analyzed: 01/10/2025					
Arsenic	9.57	0.248	mg/kg	4.28	4.52	118	75-125			
Barium	609	8.55	"	428	116	115	75-125			
Cadmium	5.31	0.0855	"	4.28	0.173	120	75-125			
Copper	65.3	8.55	"	42.8	11.9	125	75-125			
Lead	14.8	0.855	"	4.28	9.94	113	75-125			
Nickel	18.5	0.855	"	4.28	14.8	87.7	75-125			
Selenium	4.87	0.222	"	4.28	0.132	111	75-125			
Silver	5.16	0.0855	"	4.28	0.0198	120	75-125			
Zinc	104	31.7	"	42.8	49.1	128	75-125			QM-07
<b>Matrix Spike Dup (B5A0925-MSD1)</b>			<b>Source: E5A0105-01</b>		Prepared: 01/09/2025 Analyzed: 01/10/2025					
Arsenic	9.28	0.252	mg/kg	4.35	4.52	109	75-125	3.00	20	
Barium	606	8.69	"	435	116	113	75-125	0.549	20	
Cadmium	5.08	0.0869	"	4.35	0.173	113	75-125	4.30	20	
Copper	62.3	8.69	"	43.5	11.9	116	75-125	4.84	20	
Lead	14.9	0.869	"	4.35	9.94	115	75-125	1.30	20	
Nickel	17.9	0.869	"	4.35	14.8	70.6	75-125	3.75	20	QM-07
Selenium	4.58	0.226	"	4.35	0.132	102	75-125	6.09	20	
Silver	4.93	0.0869	"	4.35	0.0198	113	75-125	4.46	20	
Zinc	100	32.2	"	43.5	49.1	118	75-125	3.35	20	

Origins Laboratory



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Project Number: [none]  
Project: County Line 3229

## 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 B5A0913 - Saturated Paste Metals

##### Blank (B5A0913-BLK1)

Prepared: 01/09/2025 Analyzed: 01/10/2025

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 (B5A0913-DUP1)

Source: E5A0101-04

Prepared: 01/09/2025 Analyzed: 01/10/2025

Calcium PPM	192	10.0	mg/L		266			32.0	50	
SAR	ND	0.0100	SAR		ND				200	Ua
Magnesium PPM	144	10.0	mg/L		192			28.8	50	
Sodium PPM	44.0	10.0	"		51.5			15.9	50	

#### Batch B5A0916 - DTPA Sorbitol Preparation

##### Blank (B5A0916-BLK1)

Prepared: 01/09/2025 Analyzed: 01/10/2025

Boron	ND	0.100	mg/L							Ua
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##### Duplicate (B5A0916-DUP1)

Source: E5A0100-06

Prepared: 01/09/2025 Analyzed: 01/10/2025

Boron	0.0960	0.101	mg/L		0.0853			11.7	50	Ua
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Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

**Saturated Paste - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B5A0919 - Saturated Paste pH/EC</b>										
<b>Blank (B5A0919-BLK1)</b>					Prepared: 01/09/2025 Analyzed: 01/10/2025					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
<b>Duplicate (B5A0919-DUP1)</b>					<b>Source: E5A0101-04</b> Prepared: 01/09/2025 Analyzed: 01/10/2025					
pH	8.08		pH Units		8.04			0.496	25	
Specific Conductance (EC)	2.01	0.00500	mmhos/cm		2.62			26.5	25	QR-DUP

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Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

**PAH by 3541/8270 - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2733894 - SW846 3541**

**BLANK (1205975676-BLK)**

Prepared: 01/15/2025 Analyzed: 01/15/2025

Fluorene	ND	0.00330	mg/kg				-			U
Benzo(a)anthracene	ND	0.00330	"				-			U
Pyrene	ND	0.00330	"				-			U
Naphthalene	ND	0.00330	"				-			U
Indeno(1,2,3-cd)pyrene	ND	0.00330	"				-			U
Benzo(b)fluoranthene	ND	0.00330	"				-			U
2-Methylnaphthalene	ND	0.00330	"				-			U
Fluoranthene	ND	0.00330	"				-			U
Acenaphthene	ND	0.00330	"				-			U
Anthracene	ND	0.00330	"				-			U
Benzo(a)pyrene	ND	0.00330	"				-			U
Benzo(k)fluoranthene	ND	0.00330	"				-			U
Chrysene	ND	0.00330	"				-			U
Dibenzo(a,h)anthracene	ND	0.00330	"				-			U
1-Methylnaphthalene	ND	0.00330	"				-			U

Surrogate: 5-alpha-Androstane

0.128

"

0.165

78

22-135

**LCS (1205975677-BKS)**

Prepared: 01/15/2025 Analyzed: 01/15/2025

Benzo(k)fluoranthene	0.210	0.00330	mg/kg	0.330		63	40-122
Chrysene	0.224	0.00330	"	0.330		68	42-117
Fluoranthene	0.218	0.00330	"	0.330		66	39-119
Fluorene	0.231	0.00330	"	0.330		70	37-115
Indeno(1,2,3-cd)pyrene	0.217	0.00330	"	0.330		66	38-133
Naphthalene	0.223	0.00330	"	0.330		68	38-109
Pyrene	0.213	0.00330	"	0.330		65	38-117
Benzo(b)fluoranthene	0.221	0.00330	"	0.330		67	39-123
Benzo(a)pyrene	0.227	0.00330	"	0.330		69	39-127

Origins Laboratory



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Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## PAH by 3541/8270 - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 2733894 - SW846 3541

#### LCS (1205975677-BKS)

Prepared: 01/15/2025 Analyzed: 01/15/2025

Benzo(a)anthracene	0.218	0.00330	mg/kg	0.330		66	42-120			
Anthracene	0.213	0.00330	"	0.330		65	41-117			
Acenaphthene	0.225	0.00330	"	0.330		68	41-112			
2-Methylnaphthalene	0.220	0.00330	"	0.330		67	39-110			
1-Methylnaphthalene	0.215	0.00330	"	0.330		65	39-109			
Dibenzo(a,h)anthracene	0.222	0.00330	"	0.330		67	38-132			
Surrogate: 5-alpha-Androstane	0.0925		"	0.165		56	22-135			

#### LCSD (1205975678-BKSD)

Prepared: 01/15/2025 Analyzed: 01/15/2025

Benzo(a)pyrene	0.248	0.00329	mg/kg	0.329		75	39-127	9	30	
Benzo(b)fluoranthene	0.240	0.00329	"	0.329		73	39-123	8	30	
Benzo(k)fluoranthene	0.229	0.00329	"	0.329		69	40-122	9	30	
Chrysene	0.249	0.00329	"	0.329		76	42-117	11	30	
Dibenzo(a,h)anthracene	0.237	0.00329	"	0.329		72	38-132	7	30	
Fluoranthene	0.240	0.00329	"	0.329		73	39-119	10	30	
Fluorene	0.250	0.00329	"	0.329		76	37-115	8	30	
Benzo(a)anthracene	0.242	0.00329	"	0.329		73	42-120	10	30	
Naphthalene	0.238	0.00329	"	0.329		72	38-109	7	30	
2-Methylnaphthalene	0.235	0.00329	"	0.329		71	39-110	6	30	
Indeno(1,2,3-cd)pyrene	0.234	0.00329	"	0.329		71	38-133	7	30	
Pyrene	0.234	0.00329	"	0.329		71	38-117	9	30	
1-Methylnaphthalene	0.230	0.00329	"	0.329		70	39-109	6	30	
Anthracene	0.235	0.00329	"	0.329		71	41-117	10	30	
Acenaphthene	0.241	0.00329	"	0.329		73	41-112	7	30	
Surrogate: 5-alpha-Androstane	0.116		"	0.165		70	22-135			

#### MS (1205975679 S)

Source: 703745001

Prepared: 01/15/2025 Analyzed: 01/15/2025

Origins Laboratory



Jen Pellegrini, Project Manager

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Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## PAH by 3541/8270 - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2733894 - SW846 3541

MS (1205975679 S)		Source: 703745001			Prepared: 01/15/2025 Analyzed: 01/15/2025					
Dibenzo(a,h)anthracene	0.221	0.00400	mg/kg dry	0.400	<0.00132	55	11-134			
Benzo(a)pyrene	0.226	0.00400	"	0.400	<0.00132	57	16-133			
Pyrene	0.222	0.00400	"	0.400	<0.00132	55	12-139			
Benzo(b)fluoranthene	0.216	0.00400	"	0.400	<0.00132	54	14-136			
Naphthalene	0.206	0.00400	"	0.400	<0.00132	52	16-126			
Indeno(1,2,3-cd)pyrene	0.212	0.00400	"	0.400	<0.00132	53	13-134			
Fluoranthene	0.223	0.00400	"	0.400	<0.00132	56	14-136			
Chrysene	0.233	0.00400	"	0.400	<0.00132	58	19-129			
Benzo(k)fluoranthene	0.211	0.00400	"	0.400	<0.00132	53	18-138			
Benzo(a)anthracene	0.222	0.00400	"	0.400	<0.00132	55	20-132			
Fluorene	0.230	0.00400	"	0.400	<0.00132	58	16-134			
Acenaphthene	0.219	0.00400	"	0.400	<0.00132	55	17-129			
1-Methylnaphthalene	0.209	0.00400	"	0.400	<0.00132	52	15-129			
Anthracene	0.221	0.00400	"	0.400	<0.00132	55	18-136			
2-Methylnaphthalene	0.212	0.00400	"	0.400	<0.00132	53	15-132			
Surrogate: 5-alpha-Androstane	0.123		"	0.200	0.0981	61	22-135			

MSD (1205975680 SD)		Source: 703745001			Prepared: 01/15/2025 Analyzed: 01/15/2025					
Fluoranthene	0.160	0.00397	mg/kg dry	0.397	<0.00131	40	14-136	33	30	
Benzo(a)anthracene	0.159	0.00397	"	0.397	<0.00131	40	20-132	33	30	
Benzo(a)pyrene	0.168	0.00397	"	0.397	<0.00131	42	16-133	30	30	
Benzo(b)fluoranthene	0.160	0.00397	"	0.397	<0.00131	40	14-136	30	30	
Benzo(k)fluoranthene	0.155	0.00397	"	0.397	<0.00131	39	18-138	31	30	
Dibenzo(a,h)anthracene	0.168	0.00397	"	0.397	<0.00131	42	11-134	27	30	
2-Methylnaphthalene	0.152	0.00397	"	0.397	<0.00131	38	15-132	33	30	
Fluorene	0.168	0.00397	"	0.397	<0.00131	42	16-134	31	30	
Indeno(1,2,3-cd)pyrene	0.158	0.00397	"	0.397	<0.00131	40	13-134	29	30	

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Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## PAH by 3541/8270 - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2733894 - SW846 3541

MSD (1205975680 SD)		Source: 703745001			Prepared: 01/15/2025 Analyzed: 01/15/2025					
Naphthalene	0.149	0.00397	mg/kg dry	0.397	<0.00131	38	16-126	32	30	
Chrysene	0.166	0.00397	"	0.397	<0.00131	42	19-129	34	30	
Anthracene	0.157	0.00397	"	0.397	<0.00131	40	18-136	34	30	
1-Methylnaphthalene	0.149	0.00397	"	0.397	<0.00131	38	15-129	34	30	
Pyrene	0.160	0.00397	"	0.397	<0.00131	40	12-139	32	30	
Acenaphthene	0.160	0.00397	"	0.397	<0.00131	40	17-129	31	30	
Surrogate: 5-alpha-Androstane	0.0821		"	0.198	0.0981	41	22-135			

Origins Laboratory



Jen Pellegrini, Project Manager

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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: County Line 3229

## 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 2733646 - SW846 3060A										
BLANK (1205975217-BLK)					Prepared: 01/20/2025 Analyzed: 01/21/2025					
Hexavalent Chromium	ND	0.345	mg/kg				-			U
LCS (1205975218-BKS)					Prepared: 01/20/2025 Analyzed: 01/21/2025					
Hexavalent Chromium	3.19	0.316	mg/kg	3.16		101	80-120			
DUP (1205975219 D)					Source: 703745001 Prepared: 01/20/2025 Analyzed: 01/21/2025					
Hexavalent Chromium	ND	0.362	mg/kg dry		<0.145		0-50	N/A	50	U
MS (1205975220 S)					Source: 703745001 Prepared: 01/20/2025 Analyzed: 01/21/2025					
Hexavalent Chromium	1.54	0.363	mg/kg dry	3.63	<0.145	39.6	75-125			
DUP (1205975221 D)					Source: 703747001 Prepared: 01/20/2025 Analyzed: 01/21/2025					
Hexavalent Chromium	ND	0.307	mg/kg dry		<0.123		0-50	N/A	50	U
MS (1205975222 S)					Source: 703747001 Prepared: 01/20/2025 Analyzed: 01/21/2025					
Hexavalent Chromium	1.78	0.307	mg/kg dry	3.07	<0.123	56.1	75-125			
ILCS (1205975223-ILCS)					Prepared: 01/20/2025 Analyzed: 01/21/2025					
Hexavalent Chromium	5.39	0.254	mg/kg	5.15		105	80-120			

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Verdad Resources

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Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: County Line 3229

## Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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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