



Verdad Resources

January 24, 2025

Dean Wagoner

1125 17th St Suite 550

Denver

CO

80202

Project Name - County Line 3107

Project Number - [none]

Attached are your analytical results for County Line 3107 received by Origins Laboratory December 23, 2024. This project is associated with Origins project number E4L0810-01.

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 3107

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background	E4L0810-01	Soil	December 23, 2024 9:00	12/23/2024 14:00

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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: County Line 3107

ORIGINS

ORIGINS WORK ORDER #

EM0810

Page 1 of 1

LABORATORY INC

Client: Verdad Resources

Project Manager: Dean Wagoner

Key:

Address: 1125 17th Street Suite 600

Project Name: County Line 3107

W=Water

Telephone Number: Denver Co 80202

Project Number:

GW=Groundwater

Telephone Number: 720 515 6900

Collected By: Dean Wagoner

SW=Surface Water

Email Address: mcguffey@verdadresources.com

Invoice/Billing Info:

Dean Wagoner

WW=Waste Water

S=Soil | SO=Soil | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis								Comments
1	Background	12/23/14	0900	3	Soil									
2														
3														
4														
5														
6														
7														
8														
9														
10														

Relinquished By: <u>Dean Wagoner</u>	Date: <u>12/23/14</u>	Time: <u>1400</u>	Received By: <u>WS</u>	Date: <u>12/23/14</u>	Time: <u>1400</u>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

For Lab Sample Receiving Only:

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com |

Temp Received: 1.6

Received On Ice? ☐ Yes ☐ No

☐ Standard

☐ 48 Hr ☐ 72 Hr

☒ SAME DAY ☐ 24 Hr

Turnaround Time

Origins Laboratory

J. Bynon

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Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: County Line 3107

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: E4L0810

Client: Verdad Resources

Logged in by: US/Kem

Client Project ID: County Line

Checklist Completed by: US/Kem

Shipped Via: Hb

Date/time completed: 12/23/24

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

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 12.6 °C / 7 °C (Describe)

Thermometer ID: T007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		/		SP
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID 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+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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JAC

12/23/24
Date/Time Reviewed

Origins Laboratory

J. Bynon

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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: County Line 3107

Background

12/23/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4L0810-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.183	0.101	mg/L	1	B4L2403	12/24/2024	12/26/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4L2325	12/23/2024	12/23/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	75.0 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4L2332	"	12/23/2024	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	103 %	70-130	"	"	"
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Dean Wagoner
Project Number: [none]
Project: County Line 3107

Background

12/23/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4L0810-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.9 %	70-130	B4L23 32	12/23/2024	12/23/2024
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.21	0.499	meq/L	10	[CALC]	12/24/2024	12/27/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.982	0.435	"	"	"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4L2313	12/23/2024	01/18/2025	Ua
2-Methylnaphthalene	0.002	0.002	"	"	"	"	"	
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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Project: County Line 3107

Background

12/23/2024 9:00:00AM

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

E4L0810-01 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND	0.020	mg/kg	1	B4L2313	12/23/2024	01/18/2025	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	0.003	0.002	"	"	"	"	"	
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	96.1 %	60-130	"	"	"
Surrogate: Anthracene-d10	89.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	106 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	92.0 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.20	pH Units	1	B4L2413	12/24/2024	12/27/2024
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SAR by 20B Saturated Paste

SAR	1.08	0.0100	SAR	1	B4L2405	12/24/2024	12/27/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.327	0.00500	mmhos/cm	1	B4L2413	12/24/2024	12/27/2024
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Table 915 metals by EPA 6020B

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Background

12/23/2024 9:00:00AM

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

E4L0810-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.75	0.258	mg/kg	10	B4L2330	12/23/2024	12/26/2024
Barium	70.5	8.89	"	"	"	"	"
Cadmium	ND	0.0889	"	"	"	"	"
Copper	ND	8.89	"	"	"	"	"
Lead	5.94	0.889	"	"	"	"	"
Nickel	5.38	0.889	"	"	"	"	"
Selenium	ND	0.231	"	"	"	"	"
Silver	ND	0.0889	"	"	"	"	"
Zinc	ND	32.9	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.117	0.293	mg/kg dry	1	2731368	01/13/2025	01/16/2025	U
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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: County Line 3107

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 B4L2325 - EPA 3550B										
Blank (B4L2325-BLK1)					Prepared: 12/23/2024 Analyzed: 12/23/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	19		"	24.9		78.1	50-150			

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Dean Wagoner
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Project: County Line 3107

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 B4L2325 - EPA 3550B

LCS (B4L2325-BS1)

Prepared: 12/23/2024 Analyzed: 12/23/2024

Diesel (C10-C28)	889	50.0	mg/kg	1000		88.9	70-130			
Residual Range Organics (C28-C40)	947	200	"	1000		94.7	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.7	50-150			

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Dean Wagoner
Project Number: [none]
Project: County Line 3107

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 B4L2325 - EPA 3550B

Matrix Spike (B4L2325-MS1)		Source: E4L0809-01			Prepared: 12/23/2024 Analyzed: 12/23/2024					
Diesel (C10-C28)	919	50.0	mg/kg	1000	ND	91.9	70-130			
Residual Range Organics (C28-C40)	974	200	"	1000	ND	97.4	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.7	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L2325 - EPA 3550B										
Matrix Spike Dup (B4L2325-MSD1)		Source: E4L0809-01			Prepared: 12/23/2024 Analyzed: 12/23/2024					
Diesel (C10-C28)	920	50.0	mg/kg	1000	ND	92.0	70-130	0.169	35	
Residual Range Organics (C28-C40)	984	200	"	1000	ND	98.4	70-130	0.930	35	
Surrogate: o-Terphenyl	49		"	49.8		98.4	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L2332 - EPA 5030 (soil)										
Blank (B4L2332-BLK1)					Prepared: 12/23/2024 Analyzed: 12/23/2024					
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	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.6	70-130			

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Project Number: [none]
Project: County Line 3107

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 B4L2332 - EPA 5030 (soil)										
LCS (B4L2332-BS1)					Prepared: 12/23/2024 Analyzed: 12/23/2024					
1,2,4-Trimethylbenzene	0.0934	0.00200	mg/kg	0.100		93.4	70-130			
1,3,5-Trimethylbenzene	0.0936	0.00200	"	0.100		93.6	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.0948	0.00200	"	0.100		94.8	70-130			
Naphthalene	0.0920	0.00380	"	0.100		92.0	70-130			
Toluene	0.0947	0.00200	"	0.100		94.7	70-130			
o-Xylene	0.0934	0.00200	"	0.100		93.4	70-130			
m,p-Xylene	0.191	0.00400	"	0.200		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Dean Wagoner
Project Number: [none]
Project: County Line 3107

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 B4L2332 - EPA 5030 (soil)										
Matrix Spike (B4L2332-MS1)		Source: E4L0809-01			Prepared: 12/23/2024 Analyzed: 12/23/2024					
1,2,4-Trimethylbenzene	0.0923	0.00200	mg/kg	0.100	ND	92.3	70-130			
1,3,5-Trimethylbenzene	0.0913	0.00200	"	0.100	ND	91.3	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.0920	0.00200	"	0.100	ND	92.0	70-130			
Naphthalene	0.0982	0.00380	"	0.100	ND	98.2	70-130			
Toluene	0.0915	0.00200	"	0.100	ND	91.5	70-130			
o-Xylene	0.0917	0.00200	"	0.100	ND	91.7	70-130			
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Project Number: [none]
Project: County Line 3107

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 B4L2332 - EPA 5030 (soil)										
Matrix Spike Dup (B4L2332-MSD1)			Source: E4L0809-01		Prepared: 12/23/2024 Analyzed: 12/23/2024					
1,2,4-Trimethylbenzene	0.0912	0.00200	mg/kg	0.100	ND	91.2	70-130	1.24	20	
1,3,5-Trimethylbenzene	0.0903	0.00200	"	0.100	ND	90.3	70-130	1.06	20	
Benzene	0.0992	0.00200	"	0.100	ND	99.2	70-130	1.58	20	
Ethylbenzene	0.0934	0.00200	"	0.100	ND	93.4	70-130	1.49	20	
Naphthalene	0.0956	0.00380	"	0.100	ND	95.6	70-130	2.66	20	
Toluene	0.0900	0.00200	"	0.100	ND	90.0	70-130	1.65	20	
o-Xylene	0.0923	0.00200	"	0.100	ND	92.3	70-130	0.695	20	
m,p-Xylene	0.187	0.00400	"	0.200	ND	93.5	70-130	1.17	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Dean Wagoner
Project Number: [none]
Project: County Line 3107

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 B4L2330 - EPA 3050B

Blank (B4L2330-BLK1)

Prepared: 12/23/2024 Analyzed: 12/26/2024

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

LCS (B4L2330-BS1)

Prepared: 12/23/2024 Analyzed: 12/26/2024

Arsenic	5.38	0.290	mg/kg	5.00	108	80-120
Barium	564	10.0	"	500	113	80-120
Cadmium	5.43	0.100	"	5.00	109	80-120
Copper	53.6	10.0	"	50.0	107	80-120
Lead	5.39	1.00	"	5.00	108	80-120
Nickel	4.43	1.00	"	5.00	88.6	80-120
Selenium	5.21	0.260	"	5.00	104	80-120
Silver	5.79	0.100	"	5.00	116	80-120
Zinc	54.2	37.0	"	50.0	108	80-120

Matrix Spike (B4L2330-MS1)

Source: E4L0812-01

Prepared: 12/23/2024 Analyzed: 12/26/2024

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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: County Line 3107

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
Batch B4L2330 - EPA 3050B										
Matrix Spike (B4L2330-MS1)		Source: E4L0812-01			Prepared: 12/23/2024 Analyzed: 12/26/2024					
Arsenic	7.32	0.279	mg/kg	4.82	2.64	97.3	75-125			
Barium	602	9.63	"	482	76.3	109	75-125			
Cadmium	5.29	0.0963	"	4.82	0.0777	108	75-125			
Copper	56.2	9.63	"	48.2	5.34	106	75-125			
Lead	10.6	0.963	"	4.82	7.09	72.3	75-125			QM-07
Nickel	10.5	0.963	"	4.82	5.79	98.0	75-125			
Selenium	5.29	0.250	"	4.82	0.0728	108	75-125			
Silver	5.78	0.0963	"	4.82	0.0505	119	75-125			
Zinc	75.1	35.6	"	48.2	26.7	101	75-125			
Matrix Spike Dup (B4L2330-MSD1)		Source: E4L0812-01			Prepared: 12/23/2024 Analyzed: 12/26/2024					
Arsenic	7.12	0.270	mg/kg	4.66	2.64	96.1	75-125	2.83	20	
Barium	630	9.32	"	466	76.3	119	75-125	4.61	20	
Cadmium	5.04	0.0932	"	4.66	0.0777	107	75-125	4.73	20	
Copper	53.5	9.32	"	46.6	5.34	103	75-125	4.97	20	
Lead	10.5	0.932	"	4.66	7.09	73.4	75-125	0.570	20	QM-07
Nickel	10.6	0.932	"	4.66	5.79	104	75-125	1.00	20	
Selenium	5.06	0.242	"	4.66	0.0728	107	75-125	4.39	20	
Silver	5.36	0.0932	"	4.66	0.0505	114	75-125	7.51	20	
Zinc	73.7	34.5	"	46.6	26.7	101	75-125	1.87	20	

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Dean Wagoner
Project Number: [none]
Project: County Line 3107

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 B4L2313 - EPA 3580

Blank (B4L2313-BLK1)

Prepared: 12/23/2024 Analyzed: 01/18/2025

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	97.8	60-130
Surrogate: Anthracene-d10	190		"	200	95.9	60-130
Surrogate: Pyrene-d10	210		"	200	105	60-130
Surrogate: Benzo (a) pyrene-d12	180		"	200	90.9	60-130

LCS (B4L2313-BS1)

Prepared: 12/23/2024 Analyzed: 01/18/2025

1-Methylnaphthalene	0.204	0.002	mg/kg	0.200	102	70-130
2-Methylnaphthalene	0.204	0.002	"	0.200	102	70-130
Acenaphthene	0.228	0.020	"	0.200	114	70-130
Anthracene	0.199	0.020	"	0.200	99.6	70-130

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Dean Wagoner
Project Number: [none]
Project: County Line 3107

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 B4L2313 - EPA 3580

LCS (B4L2313-BS1)

Prepared: 12/23/2024 Analyzed: 01/18/2025

Benzo (a) anthracene	0.219	0.005	mg/kg	0.200		109	70-130
Benzo (a) pyrene	0.250	0.020	"	0.200		125	70-130
Benzo (b) fluoranthene	0.249	0.020	"	0.200		125	70-130
Benzo (g,h,i) perylene	0.223	0.020	"	0.200		111	70-130
Benzo (k) fluoranthene	0.234	0.020	"	0.200		117	70-130
Chrysene	0.218	0.020	"	0.200		109	70-130
Dibenz (a,h) anthracene	0.175	0.020	"	0.200		87.6	70-130
Fluoranthene	0.236	0.020	"	0.200		118	70-130
Fluorene	0.228	0.020	"	0.200		114	70-130
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200		95.0	70-130
Naphthalene	0.226	0.002	"	0.200		113	70-130
Phenanthrene	0.204	0.020	"	0.200		102	70-130
Pyrene	0.249	0.020	"	0.200		125	70-130

Surrogate: Fluorene-d10	200		ug/kg	200		99.5	60-130
Surrogate: Anthracene-d10	170		"	200		85.9	60-130
Surrogate: Pyrene-d10	210		"	200		106	60-130
Surrogate: Benzo (a) pyrene-d12	180		"	200		91.0	60-130

Matrix Spike (B4L2313-MS1)

Source: E4L0724-21

Prepared: 12/23/2024 Analyzed: 01/20/2025

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	ND	104	70-130
2-Methylnaphthalene	0.215	0.002	"	0.200	0.0008	107	70-130
Acenaphthene	0.221	0.020	"	0.200	ND	110	70-130
Anthracene	0.223	0.020	"	0.200	ND	111	70-130
Benzo (a) anthracene	0.233	0.005	"	0.200	0.0004	116	70-130
Benzo (a) pyrene	0.210	0.020	"	0.200	0.001	104	70-130
Benzo (b) fluoranthene	0.217	0.020	"	0.200	0.0005	108	70-130
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	0.0005	103	70-130

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Project Number: [none]
Project: County Line 3107

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 B4L2313 - EPA 3580

Matrix Spike (B4L2313-MS1)		Source: E4L0724-21			Prepared: 12/23/2024 Analyzed: 01/20/2025					
Benzo (k) fluoranthene	0.204	0.020	mg/kg	0.200	0.0006	102	70-130			
Chrysene	0.220	0.020	"	0.200	0.002	109	70-130			
Dibenz (a,h) anthracene	0.225	0.020	"	0.200	ND	112	70-130			
Fluoranthene	0.234	0.020	"	0.200	0.0009	117	70-130			
Fluorene	0.216	0.020	"	0.200	0.0008	107	70-130			
Indeno (1,2,3-cd) pyrene	0.235	0.020	"	0.200	ND	118	70-130			
Naphthalene	0.219	0.002	"	0.200	0.002	108	70-130			
Phenanthrene	0.220	0.020	"	0.200	0.003	109	70-130			
Pyrene	0.245	0.020	"	0.200	0.0006	122	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		97.3	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.5	60-130			

Matrix Spike Dup (B4L2313-MSD1)		Source: E4L0724-21			Prepared: 12/23/2024 Analyzed: 01/20/2025					
1-Methylnaphthalene	0.196	0.002	mg/kg	0.200	ND	98.0	70-130	5.65	20	
2-Methylnaphthalene	0.196	0.002	"	0.200	0.0008	97.8	70-130	9.20	20	
Acenaphthene	0.216	0.020	"	0.200	ND	108	70-130	2.02	20	
Anthracene	0.225	0.020	"	0.200	ND	112	70-130	0.887	20	
Benzo (a) anthracene	0.233	0.005	"	0.200	0.0004	116	70-130	0.0160	20	
Benzo (a) pyrene	0.234	0.020	"	0.200	0.001	116	70-130	10.6	20	
Benzo (b) fluoranthene	0.220	0.020	"	0.200	0.0005	110	70-130	1.21	20	
Benzo (g,h,i) perylene	0.203	0.020	"	0.200	0.0005	102	70-130	1.54	20	
Benzo (k) fluoranthene	0.207	0.020	"	0.200	0.0006	103	70-130	1.38	20	
Chrysene	0.223	0.020	"	0.200	0.002	111	70-130	1.29	20	
Dibenz (a,h) anthracene	0.213	0.020	"	0.200	ND	106	70-130	5.57	20	
Fluoranthene	0.233	0.020	"	0.200	0.0009	116	70-130	0.411	20	

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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
Batch B4L2313 - EPA 3580										
Matrix Spike Dup (B4L2313-MSD1)			Source: E4L0724-21		Prepared: 12/23/2024 Analyzed: 01/20/2025					
Fluorene	0.211	0.020	mg/kg	0.200	0.0008	105	70-130	2.09	20	
Indeno (1,2,3-cd) pyrene	0.219	0.020	"	0.200	ND	109	70-130	7.27	20	
Naphthalene	0.215	0.002	"	0.200	0.002	107	70-130	1.64	20	
Phenanthrene	0.221	0.020	"	0.200	0.003	109	70-130	0.311	20	
Pyrene	0.252	0.020	"	0.200	0.0006	126	70-130	2.72	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.1	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

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Project Number: [none]
Project: County Line 3107

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 B4L2403 - DTPA Sorbitol Preparation

Blank (B4L2403-BLK1)

Prepared: 12/24/2024 Analyzed: 12/26/2024

Boron ND 0.100 mg/L

Duplicate (B4L2403-DUP1)

Source: E4L0810-01

Prepared: 12/24/2024 Analyzed: 12/26/2024

Boron 0.193 0.101 mg/L 0.183 5.39 50

Batch B4L2405 - Saturated Paste Metals

Blank (B4L2405-BLK1)

Prepared: 12/24/2024 Analyzed: 12/27/2024

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B4L2405-DUP1)

Source: E4L0810-01

Prepared: 12/24/2024 Analyzed: 12/27/2024

SAR ND 0.0100 SAR 1.08 200

Calcium PPM 29.1 10.0 mg/L 24.3 18.0 50

Magnesium PPM 6.28 10.0 " 5.46 14.0 50

Sodium PPM 24.4 10.0 " 22.6 7.75 50

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Project: County Line 3107

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L2413 - Saturated Paste pH/EC										
Blank (B4L2413-BLK1)					Prepared: 12/24/2024 Analyzed: 12/27/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4L2413-DUP1)					Source: E4L0810-01 Prepared: 12/24/2024 Analyzed: 12/27/2024					
pH	8.18		pH Units		8.20			0.244	25	
Specific Conductance (EC)	0.345	0.00500	mmhos/cm		0.327			5.35	25	

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Dean Wagoner
Project Number: [none]
Project: County Line 3107

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 2731368 - SW846 3060A										
BLANK (1205971478-BLK)					Prepared: 01/13/2025 Analyzed: 01/16/2025					
Hexavalent Chromium	ND	0.360	mg/kg				-			U
LCS (1205971479-BKS)					Prepared: 01/13/2025 Analyzed: 01/16/2025					
Hexavalent Chromium	3.56	0.354	mg/kg	3.54		101	80-120			
DUP (1205971480 D)					Source: 701661001 Prepared: 01/13/2025 Analyzed: 01/16/2025					
Hexavalent Chromium	ND	0.350	mg/kg dry		<0.140		0-50	N/A	50	U
MS (1205971481 S)					Source: 701661001 Prepared: 01/13/2025 Analyzed: 01/16/2025					
Hexavalent Chromium	1.78	0.447	mg/kg dry	4.47	<0.179	37.5	75-125			
DUP (1205971482 D)					Source: 701661002 Prepared: 01/13/2025 Analyzed: 01/16/2025					
Hexavalent Chromium	ND	0.372	mg/kg dry		<0.149		0-50	N/A	50	U
MS (1205971483 S)					Source: 701661002 Prepared: 01/13/2025 Analyzed: 01/16/2025					
Hexavalent Chromium	2.34	0.433	mg/kg dry	4.33	<0.173	53.2	75-125			
ILCS (1205971484-ILCS)					Prepared: 01/13/2025 Analyzed: 01/16/2025					
Hexavalent Chromium	6.72	0.315	mg/kg	6.49		104	80-120			

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Verdad Resources

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Dean Wagoner

Project Number: [none]

Project: County Line 3107

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.

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A handwritten signature in black ink, appearing to read "J. Bynon".

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