



March 28, 2023

**Verdad Resources**

**Dean Wagoner**

**1125 17th St Suite 550**

**Denver**

**CO 80202**

**Project Name - Edna 1**

**Project Number - [none]**

Attached are your analytical results for Edna 1 received by Origins Laboratory, Inc. March 23, 2023. This project is associated with Origins project number Y303627-01.

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, Inc.  
303.433.1322  
o-squad@oelabinc.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: Edna 1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sample 1	Y303627-01	Soil	March 23, 2023 13:50	03/23/2023 17:06
Sample 2	Y303627-02	Soil	March 23, 2023 13:53	03/23/2023 17:06
Sample 3	Y303627-03	Soil	March 23, 2023 14:00	03/23/2023 17:06
Sample 4	Y303627-04	Soil	March 23, 2023 14:05	03/23/2023 17:06
Sample 5	Y303627-05	Soil	March 23, 2023 14:10	03/23/2023 17:06
Sample 6	Y303627-06	Soil	March 23, 2023 14:15	03/23/2023 17:06
Sample 7	Y303627-07	Soil	March 23, 2023 14:20	03/23/2023 17:06
Sample 8	Y303627-08	Soil	March 23, 2023 14:25	03/23/2023 17:06
Sample 9	Y303627-09	Soil	March 23, 2023 14:30	03/23/2023 17:06
Sample 10	Y303627-10	Soil	March 23, 2023 14:35	03/23/2023 17:06
Sample 11	Y303627-11	Soil	March 23, 2023 14:40	03/23/2023 17:06
Sample 13	Y303627-13	Soil	March 23, 2023 14:50	03/23/2023 17:06
Sample 14	Y303627-14	Soil	March 23, 2023 14:55	03/23/2023 17:06
Sample 15	Y303627-15	Soil	March 23, 2023 15:00	03/23/2023 17:06

Origins Laboratory, Inc.



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Verdad Resources

1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sample 16	Y303627-16	Soil	March 23, 2023 15:05	03/23/2023 17:06
Floor F1	Y303627-17	Soil	March 23, 2023 15:10	03/23/2023 17:06
Floor F2	Y303627-18	Soil	March 23, 2023 15:15	03/23/2023 17:06
Floor F3	Y303627-19	Soil	March 23, 2023 15:20	03/23/2023 17:06
Floor F4	Y303627-20	Soil	March 23, 2023 15:25	03/23/2023 17:06
Floor F5	Y303627-21	Soil	March 23, 2023 15:30	03/23/2023 17:06
Floor F6	Y303627-22	Soil	March 23, 2023 15:35	03/23/2023 17:06
Background	Y303627-23	Soil	March 23, 2023 14:00	03/23/2023 17:06

Origins Laboratory, Inc.



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1125 17th St Suite 550  
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Dean Wagoner  
Project Number: [none]  
Project: Edna 1

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**ORIGINS**  
LABORATORY, INC

4303627

www.originslaboratory.com

page 1 of 3

Client: Verdad Resources  
Address: 1125 17th Street Suite 550  
Telephone Number: 720-845-6902  
Email Address: Mcguire.H@VerdadResources.com  
Project Manager: Dean Wagoner  
Project Name: Edna 1  
Project Number: 4303627  
Samples Collected By: Dean Wagoner  
Dean Wagoner@VerdadResources.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil		
Sample 1	3/23/23	1:50	2							X	
2	3/23/23	1:55	2							X	
3	3/23/23	2:00	2							X	
4	3/23/23	2:05	2							X	
5	3/23/23	2:10	2							X	
6	3/23/23	2:15	2							X	
7	3/23/23	2:20	2							X	
8	3/23/23	2:25	2							X	
9	3/23/23	2:30	2							X	
10	3/23/23	2:35	2							X	

Temp Received: 15

Date Results Needed

Relinquished By: Dean Wagoner  
Date: 3/23/23  
Time: 1706  
Received By: CHS  
Date: 3/23/23  
Time: 1706  
Turnaround Time:  
Same Day ☐ 24 Hr ☒ 48 Hr ☐ 72 Hr ☐  
Standard ☐

Origins Laboratory, Inc.

*J. Bynon*

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Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

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**ORIGINS**  
LABORATORY, INC

www.originslaboratory.com

Client: Verdad Resources  
Address: \_\_\_\_\_  
Telephone Number: \_\_\_\_\_  
Email Address: \_\_\_\_\_

Project Manager: Dean Wagoner  
Project Name: Edna  
Project Number: \_\_\_\_\_  
Samples Collected By: \_\_\_\_\_

4308627 page 2 of 3

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater		
11	3/2/03	2:40	2							
12		2:45								
13		2:50								
14		2:55								
15		3:00								
16		3:05								
Floor E1		3:10								
Floor E2		3:15								
Floor E3		3:20								
Floor E4		3:25								
Relinquished By: <u>Dean Wagoner</u>	Date: <u>3/2/03</u>	Time: <u>1706</u>	Received By: <u>CHS</u>	Date: <u>3/2/03</u>	Time: <u>1706</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>				

Temp Received - 5 Date Results Needed

Origins Laboratory, Inc.

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Dean Wagoner

Project Number: [none]

Project: Edna 1

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**ORIGINS**  
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4303627

page 3 of 3

Client: Verdad

Project Manager: Dean Wagoner

Address: \_\_\_\_\_

Project Name: Edna 1

Telephone Number: \_\_\_\_\_

Project Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

Samples Collected By: \_\_\_\_\_

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #		
F5	3/13/13	3:30	2								TPH EC SAR pH BOD BTEX Naphthalene 1,2,4 Trimethyl 1,3,5 Tri methyl	1
F6	3/13/13	3:35	2									2
Background	3/13/13	2:00	2									3
												4
												5
												6
												7
												8
												9
												10

Relinquished By: Dean Wagoner Date: 3/13/13 Time: 1700

Received By: CHS Date: 3/13/13 Time: 1706

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Turnaround Time: ☐ 48 Hr ☐ 72 Hr ☒ 24 Hr

Temp Received - 15 Date Results Needed \_\_\_\_\_

Origins Laboratory, Inc.

*J. Bynon*

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CO

80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

Origins Laboratory

## Sample Receipt Checklist

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

Origins Work Order: 4303627

Client: Verdad

Client Project ID: Edna 1

Checklist Completed by: EHS/DE

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

Date/time completed: 3/23/23

Airbill #: NA

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

Cooler Number/Temperature: 1115 °C        °C        °C (Describe)        °C

Thermometer ID: T004

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"/>		SD
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): <u>Sample #12AB did not receive.</u>				

<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.

DE  
Reviewed by (Project Manager)

03/23/2023  
Date/Time Reviewed

Origins Laboratory, Inc.

*J. Bynon*

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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Sample 1**  
**3/23/2023 1:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.35	0.100	mg/L	1	B3C2404	KAP	03/24/2023	03/27/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2340	ZZZ	03/23/2023	03/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	90.1 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"
Surrogate: Toluene-d8	96.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	88.8 %	70-130			"	"	"

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Verdad Resources

1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

## Sample 1

3/23/2023 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y303627-01 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	2.15	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	2.09	0.823	"	"	"	KAP	"	"
Sodium	7.43	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.34		pH Units	1	B3C2412	HJD	03/24/2023	03/25/2023
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### SAR by 20B Saturated Paste

SAR	5.10		SAR	1	B3C2407	KAP	03/24/2023	03/27/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.18	0.00500	mmhos/cm	1	B3C2412	HJD	03/24/2023	03/25/2023
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Origins Laboratory, Inc.



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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Sample 2**  
**3/23/2023 1:53:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.501	0.0989	mg/L	1	B3C2404	KAP	03/24/2023	03/27/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2340	ZZZ	03/23/2023	03/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	86.2 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"
Surrogate: Toluene-d8	97.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	87.4 %	70-130			"	"	"

Origins Laboratory, Inc.



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Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Sample 2**  
**3/23/2023 1:53:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-02 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	3.36	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	2.55	0.823	"	"	"	KAP	"	"
Sodium	4.98	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	8.42		pH Units	1	B3C2412	HJD	03/24/2023	03/25/2023
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**SAR by 20B Saturated Paste**

SAR	2.90		SAR	1	B3C2407	KAP	03/24/2023	03/27/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.11	0.00500	mmhos/cm	1	B3C2412	HJD	03/24/2023	03/25/2023
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1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Sample 3**  
**3/23/2023 2:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.475	0.0983	mg/L	1	B3C2404	KAP	03/24/2023	03/27/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2340	ZZZ	03/23/2023	03/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	87.0 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"
Surrogate: Toluene-d8	93.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	91.0 %	70-130			"	"	"

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1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

## Sample 3

3/23/2023 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y303627-03 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	4.41	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	3.23	0.823	"	"	"	KAP	"	"
Sodium	5.34	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.12		pH Units	1	B3C2412	HJD	03/24/2023	03/25/2023
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### SAR by 20B Saturated Paste

SAR	2.73		SAR	1	B3C2407	KAP	03/24/2023	03/27/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.31	0.00500	mmhos/cm	1	B3C2412	HJD	03/24/2023	03/25/2023
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1125 17th St Suite 550  
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Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Sample 4**  
**3/23/2023 2:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.25	0.0990	mg/L	1	B3C2406	KAP	03/24/2023	03/27/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2340	ZZZ	03/23/2023	03/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	83.1 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"
Surrogate: Toluene-d8	95.3 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	89.4 %	70-130			"	"	"

Origins Laboratory, Inc.



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Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Sample 4**  
**3/23/2023 2:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-04 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	4.00	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	7.05	0.823	"	"	"	KAP	"	"
Sodium	14.3	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	8.21		pH Units	1	B3C2413	HJD	03/24/2023	03/25/2023
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**SAR by 20B Saturated Paste**

SAR	6.10		SAR	1	B3C2408	KAP	03/24/2023	03/27/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.45	0.00500	mmhos/cm	1	B3C2413	HJD	03/24/2023	03/25/2023
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Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Sample 5**  
**3/23/2023 2:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.20	0.0996	mg/L	1	B3C2406	KAP	03/24/2023	03/27/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2340	ZZZ	03/23/2023	03/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	84.4 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"
Surrogate: Toluene-d8	94.6 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	90.5 %	70-130			"	"	"

Origins Laboratory, Inc.



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1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

## Sample 5

3/23/2023 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y303627-05 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	4.28	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	7.83	0.823	"	"	"	KAP	"	"
Sodium	14.9	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.26		pH Units	1	B3C2413	HJD	03/24/2023	03/25/2023
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### SAR by 20B Saturated Paste

SAR	6.07		SAR	1	B3C2408	KAP	03/24/2023	03/27/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.57	0.00500	mmhos/cm	1	B3C2413	HJD	03/24/2023	03/25/2023
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Origins Laboratory, Inc.



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Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Sample 6**  
**3/23/2023 2:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.61	0.0985	mg/L	1	B3C2406	KAP	03/24/2023	03/27/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2340	ZZZ	03/23/2023	03/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	85.6 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"
Surrogate: Toluene-d8	95.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	90.4 %	70-130			"	"	"

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1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

## Sample 6

3/23/2023 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y303627-06 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	4.41	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	6.30	0.823	"	"	"	KAP	"	"
Sodium	20.5	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.23		pH Units	1	B3C2413	HJD	03/24/2023	03/25/2023
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### SAR by 20B Saturated Paste

SAR	8.86		SAR	1	B3C2408	KAP	03/24/2023	03/27/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.11	0.00500	mmhos/cm	1	B3C2413	HJD	03/24/2023	03/25/2023
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1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Sample 7**  
**3/23/2023 2:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.44	0.0998	mg/L	1	B3C2406	KAP	03/24/2023	03/27/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2340	ZZZ	03/23/2023	03/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	82.2 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"
Surrogate: Toluene-d8	96.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	90.0 %	70-130			"	"	"

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Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Sample 7**  
**3/23/2023 2:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-07 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	4.64	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	6.52	0.823	"	"	"	KAP	"	"
Sodium	20.5	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	8.10		pH Units	1	B3C2413	HJD	03/24/2023	03/25/2023
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**SAR by 20B Saturated Paste**

SAR	8.70		SAR	1	B3C2408	KAP	03/24/2023	03/27/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	3.10	0.00500	mmhos/cm	1	B3C2413	HJD	03/24/2023	03/25/2023
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Origins Laboratory, Inc.



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Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Sample 8**  
**3/23/2023 2:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.72	0.100	mg/L	1	B3C2405	KAP	03/24/2023	03/27/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2340	ZZZ	03/23/2023	03/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	90.8 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"	"
Surrogate: Toluene-d8	92.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	91.6 %	70-130			"	"	"

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Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Sample 8**  
**3/23/2023 2:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-08 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	2.77	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	4.44	0.823	"	"	"	KAP	"	"
Sodium	13.7	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	8.30		pH Units	1	B3C2413	HJD	03/24/2023	03/25/2023
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**SAR by 20B Saturated Paste**

SAR	7.23		SAR	1	B3C2408	KAP	03/24/2023	03/27/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.45	0.00500	mmhos/cm	1	B3C2413	HJD	03/24/2023	03/25/2023
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Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Sample 9**  
**3/23/2023 2:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.70	0.100	mg/L	1	B3C2405	KAP	03/24/2023	03/27/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2340	ZZZ	03/23/2023	03/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	84.3 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130			"	"	"
Surrogate: Toluene-d8	95.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	88.0 %	70-130			"	"	"

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Verdad Resources

1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

## Sample 9

3/23/2023 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y303627-09 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	2.86	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	4.63	0.823	"	"	"	KAP	"	"
Sodium	14.2	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.35		pH Units	1	B3C2413	HJD	03/24/2023	03/25/2023
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### SAR by 20B Saturated Paste

SAR	7.35		SAR	1	B3C2408	KAP	03/24/2023	03/27/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.20	0.00500	mmhos/cm	1	B3C2413	HJD	03/24/2023	03/25/2023
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Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Sample 10**  
**3/23/2023 2:35:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.878	0.100	mg/L	1	B3C2405	KAP	03/24/2023	03/27/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2340	ZZZ	03/23/2023	03/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	83.7 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"
Surrogate: Toluene-d8	94.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	90.5 %	70-130			"	"	"

Origins Laboratory, Inc.



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Verdad Resources

1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

## Sample 10

3/23/2023 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y303627-10 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	1.30	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	1.95	0.823	"	"	"	KAP	"	"
Sodium	6.60	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.44		pH Units	1	B3C2413	HJD	03/24/2023	03/25/2023
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### SAR by 20B Saturated Paste

SAR	5.18		SAR	1	B3C2408	KAP	03/24/2023	03/27/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.04	0.00500	mmhos/cm	1	B3C2413	HJD	03/24/2023	03/25/2023
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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Sample 11**  
**3/23/2023 2:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-11 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.22	0.100	mg/L	1	B3C2405	KAP	03/24/2023	03/27/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2340	ZZZ	03/23/2023	03/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	84.8 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"
Surrogate: Toluene-d8	95.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	90.2 %	70-130			"	"	"

Origins Laboratory, Inc.



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Verdad Resources

1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

## Sample 11

3/23/2023 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y303627-11 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	2.73	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	3.83	0.823	"	"	"	KAP	"	"
Sodium	11.1	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.35		pH Units	1	B3C2413	HJD	03/24/2023	03/25/2023
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### SAR by 20B Saturated Paste

SAR	6.11		SAR	1	B3C2408	KAP	03/24/2023	03/27/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.77	0.00500	mmhos/cm	1	B3C2413	HJD	03/24/2023	03/25/2023
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Origins Laboratory, Inc.



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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Sample 13**  
**3/23/2023 2:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-13 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	4.24	0.100	mg/L	1	B3C2405	KAP	03/24/2023	03/27/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2340	ZZZ	03/23/2023	03/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	84.8 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	123 %	70-130			"	"	"
Surrogate: Toluene-d8	94.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	89.1 %	70-130			"	"	"

Origins Laboratory, Inc.



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1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

## Sample 13

3/23/2023 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y303627-13 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	16.3	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	22.6	0.823	"	"	"	KAP	"	"
Sodium	46.8	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.19		pH Units	1	B3C2413	HJD	03/24/2023	03/25/2023
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### SAR by 20B Saturated Paste

SAR	10.6		SAR	1	B3C2408	KAP	03/24/2023	03/27/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.70	0.00500	mmhos/cm	1	B3C2413	HJD	03/24/2023	03/25/2023
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Origins Laboratory, Inc.



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1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Sample 14**  
**3/23/2023 2:55:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-14 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	2.05	0.100	mg/L	1	B3C2405	KAP	03/24/2023	03/27/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2340	ZZZ	03/23/2023	03/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	88.4 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	120 %	70-130			"	"	"
Surrogate: Toluene-d8	96.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	89.0 %	70-130			"	"	"

Origins Laboratory, Inc.



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Verdad Resources

1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

## Sample 14

3/23/2023 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y303627-14 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	10.1	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	12.5	0.823	"	"	"	KAP	"	"
Sodium	23.5	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.24		pH Units	1	B3C2413	HJD	03/24/2023	03/25/2023
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### SAR by 20B Saturated Paste

SAR	7.00		SAR	1	B3C2408	KAP	03/24/2023	03/27/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.23	0.00500	mmhos/cm	1	B3C2413	HJD	03/24/2023	03/25/2023
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Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Sample 15**  
**3/23/2023 3:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-15 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.72	0.0999	mg/L	1	B3C2405	KAP	03/24/2023	03/27/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2340	ZZZ	03/23/2023	03/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	84.1 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130			"	"	"
Surrogate: Toluene-d8	94.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	89.4 %	70-130			"	"	"

Origins Laboratory, Inc.



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Verdad Resources

1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

## Sample 15

3/23/2023 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y303627-15 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	6.76	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	8.52	0.823	"	"	"	KAP	"	"
Sodium	17.9	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.28		pH Units	1	B3C2413	HJD	03/24/2023	03/25/2023
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### SAR by 20B Saturated Paste

SAR	6.48		SAR	1	B3C2408	KAP	03/24/2023	03/27/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.02	0.00500	mmhos/cm	1	B3C2413	HJD	03/24/2023	03/25/2023
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Origins Laboratory, Inc.



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1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Sample 16**  
**3/23/2023 3:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-16 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.02	0.100	mg/L	1	B3C2405	KAP	03/24/2023	03/27/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2340	ZZZ	03/23/2023	03/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	86.5 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130			"	"	"
Surrogate: Toluene-d8	94.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	90.1 %	70-130			"	"	"

Origins Laboratory, Inc.



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Verdad Resources

1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

## Sample 16

3/23/2023 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y303627-16 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	2.15	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	2.66	0.823	"	"	"	KAP	"	"
Sodium	9.63	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.43		pH Units	1	B3C2413	HJD	03/24/2023	03/25/2023
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### SAR by 20B Saturated Paste

SAR	6.20		SAR	1	B3C2408	KAP	03/24/2023	03/27/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.57	0.00500	mmhos/cm	1	B3C2413	HJD	03/24/2023	03/25/2023
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Origins Laboratory, Inc.



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1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

## Floor F1

3/23/2023 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y303627-17 (Soil)

### Boron (DTPA Sorbitol)

Boron	1.31	0.0999	mg/L	1	B3C2405	KAP	03/24/2023	03/27/2023	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2340	ZZZ	03/23/2023	03/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	89.0 %	50-150			"	"	"	
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130			"	"	"
Surrogate: Toluene-d8	95.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	89.5 %	70-130			"	"	"

Origins Laboratory, Inc.



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Verdad Resources

1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

## Floor F1

3/23/2023 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y303627-17 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	3.69	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	5.08	0.823	"	"	"	KAP	"	"
Sodium	14.0	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.39		pH Units	1	B3C2413	HJD	03/24/2023	03/25/2023
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### SAR by 20B Saturated Paste

SAR	6.71		SAR	1	B3C2408	KAP	03/24/2023	03/27/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.22	0.00500	mmhos/cm	1	B3C2413	HJD	03/24/2023	03/25/2023
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Origins Laboratory, Inc.



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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

## Floor F2

3/23/2023 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y303627-18 (Soil)

### Boron (DTPA Sorbitol)

Boron	1.29	0.100	mg/L	1	B3C2405	KAP	03/24/2023	03/27/2023	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2340	ZZZ	03/23/2023	03/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	87.8 %	50-150			"	"	"	
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"
Surrogate: Toluene-d8	96.3 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	90.7 %	70-130			"	"	"

Origins Laboratory, Inc.



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.

Verdad Resources

1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

## Floor F2

3/23/2023 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y303627-18 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	3.97	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	5.28	0.823	"	"	"	KAP	"	"
Sodium	13.7	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	7.76		pH Units	1	B3C2413	HJD	03/24/2023	03/25/2023
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### SAR by 20B Saturated Paste

SAR	6.35		SAR	1	B3C2408	KAP	03/24/2023	03/27/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.37	0.00500	mmhos/cm	1	B3C2413	HJD	03/24/2023	03/25/2023
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Origins Laboratory, Inc.



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.

Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

## Floor F3

3/23/2023 3:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y303627-19 (Soil)

### Boron (DTPA Sorbitol)

Boron	1.15	0.100	mg/L	1	B3C2405	KAP	03/24/2023	03/27/2023	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2340	ZZZ	03/23/2023	03/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	88.9 %	50-150			"	"	"	
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130			"	"	"
Surrogate: Toluene-d8	95.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	89.5 %	70-130			"	"	"

Origins Laboratory, Inc.



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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

## Floor F3

3/23/2023 3:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y303627-19 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	2.83	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	4.00	0.823	"	"	"	KAP	"	"
Sodium	11.4	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	7.94		pH Units	1	B3C2413	HJD	03/24/2023	03/25/2023
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### SAR by 20B Saturated Paste

SAR	6.15		SAR	1	B3C2408	KAP	03/24/2023	03/27/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.98	0.00500	mmhos/cm	1	B3C2413	HJD	03/24/2023	03/25/2023
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Origins Laboratory, Inc.



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.

Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

## Floor F4

3/23/2023 3:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y303627-20 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.913	0.100	mg/L	1	B3C2405	KAP	03/24/2023	03/27/2023	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2340	ZZZ	03/23/2023	03/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	86.8 %	50-150			"	"	"	
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130			"	"	"
Surrogate: Toluene-d8	95.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	90.2 %	70-130			"	"	"

Origins Laboratory, Inc.



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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

## Floor F4

3/23/2023 3:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y303627-20 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	2.78	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	4.17	0.823	"	"	"	KAP	"	"
Sodium	10.8	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	7.92		pH Units	1	B3C2413	HJD	03/24/2023	03/25/2023
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### SAR by 20B Saturated Paste

SAR	5.79		SAR	1	B3C2408	KAP	03/24/2023	03/27/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.81	0.00500	mmhos/cm	1	B3C2413	HJD	03/24/2023	03/25/2023
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Origins Laboratory, Inc.



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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

## Floor F5

3/23/2023 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y303627-21 (Soil)

### Boron (DTPA Sorbitol)

Boron	1.08	0.100	mg/L	1	B3C2405	KAP	03/24/2023	03/27/2023	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2336	ZZZ	03/23/2023	03/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	88.8 %	50-150			"	"	"	
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2341	ZZZ	03/23/2023	03/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	128 %	70-130			"	"	"
Surrogate: Toluene-d8	94.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	92.5 %	70-130			"	"	"

Origins Laboratory, Inc.



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Verdad Resources

1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

## Floor F5

3/23/2023 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y303627-21 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	4.84	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	6.33	0.823	"	"	"	KAP	"	"
Sodium	14.5	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	7.85		pH Units	1	B3C2413	HJD	03/24/2023	03/25/2023
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### SAR by 20B Saturated Paste

SAR	6.15		SAR	1	B3C2408	KAP	03/24/2023	03/27/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.43	0.00500	mmhos/cm	1	B3C2413	HJD	03/24/2023	03/25/2023
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Origins Laboratory, Inc.



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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

## Floor F6

3/23/2023 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y303627-22 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.908	0.0999	mg/L	1	B3C2405	KAP	03/24/2023	03/27/2023	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2336	ZZZ	03/23/2023	03/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	89.1 %	50-150			"	"	"	
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2343	ZZZ	03/23/2023	03/23/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"
Surrogate: Toluene-d8	91.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

Origins Laboratory, Inc.



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Verdad Resources

1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

## Floor F6

3/23/2023 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y303627-22 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	2.51	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	3.80	0.823	"	"	"	KAP	"	"
Sodium	10.2	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.04		pH Units	1	B3C2413	HJD	03/24/2023	03/25/2023
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### SAR by 20B Saturated Paste

SAR	5.77		SAR	1	B3C2408	KAP	03/24/2023	03/27/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.64	0.00500	mmhos/cm	1	B3C2413	HJD	03/24/2023	03/25/2023
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Origins Laboratory, Inc.



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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Background**  
**3/23/2023 2:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303627-23 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.93	0.0993	mg/L	1	B3C2404	KAP	03/24/2023	03/27/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2336	ZZZ	03/23/2023	03/24/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	92.0 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2343	ZZZ	03/23/2023	03/24/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"
Surrogate: Toluene-d8	89.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

Origins Laboratory, Inc.



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.

Verdad Resources

1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

## Background

3/23/2023 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y303627-23 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	7.31	0.499	meq/L	10	[CALC]	KAP	03/24/2023	03/27/2023
Magnesium	18.3	0.823	"	"	"	KAP	"	"
Sodium	40.8	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.15		pH Units	1	B3C2412	HJD	03/24/2023	03/25/2023
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### SAR by 20B Saturated Paste

SAR	11.4		SAR	1	B3C2407	KAP	03/24/2023	03/27/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.95	0.00500	mmhos/cm	1	B3C2412	HJD	03/24/2023	03/25/2023
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Origins Laboratory, Inc.



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Verdad Resources

1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3C2336 - EPA 3580										
Blank (B3C2336-BLK1)					Prepared: 03/23/2023 Analyzed: 03/23/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		92.1	50-150			

Origins Laboratory, Inc.



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Verdad Resources

1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3C2336 - EPA 3580

LCS (B3C2336-BS1)

Prepared: 03/23/2023 Analyzed: 03/23/2023

Diesel (C10-C28)	909	50.0	mg/kg	1000		90.9	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.3	50-150			

Origins Laboratory, Inc.



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.

Verdad Resources

1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3C2336 - EPA 3580

Matrix Spike (B3C2336-MS1)		Source: Y303608-01			Prepared: 03/23/2023 Analyzed: 03/23/2023					
Diesel (C10-C28)	978	50.0	mg/kg	1000	ND	97.8	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130			
Surrogate: o-Terphenyl	30		"	49.8		59.5	50-150			

Origins Laboratory, Inc.



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Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B3C2336 - EPA 3580

Matrix Spike Dup (B3C2336-MSD1)		Source: Y303608-01			Prepared: 03/23/2023 Analyzed: 03/23/2023					
Diesel (C10-C28)	885	50.0	mg/kg	1000	ND	88.5	70-130	9.98	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	7.14	35	
Surrogate: o-Terphenyl	37		"	49.8		74.8	50-150			

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Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C2340 - EPA 3580</b>										
<b>Blank (B3C2340-BLK1)</b>					Prepared: 03/23/2023 Analyzed: 03/23/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		101	50-150			

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Dean Wagoner

Project Number: [none]

Project: Edna 1

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3C2340 - EPA 3580

LCS (B3C2340-BS1)

Prepared: 03/23/2023 Analyzed: 03/23/2023

Diesel (C10-C28)	878	50.0	mg/kg	1000		87.8	70-130			
Residual Range Organics (C28-C40)	798	200	"	1000		79.8	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.2	50-150			

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Project Number: [none]

Project: Edna 1

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3C2340 - EPA 3580

Matrix Spike (B3C2340-MS1)		Source: Y303627-01			Prepared: 03/23/2023 Analyzed: 03/23/2023					
Diesel (C10-C28)	870	50.0	mg/kg	1000	ND	87.0	70-130			
Residual Range Organics (C28-C40)	812	200	"	1000	ND	81.2	70-130			
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

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Dean Wagoner

Project Number: [none]

Project: Edna 1

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B3C2340 - EPA 3580

Matrix Spike Dup (B3C2340-MSD1)		Source: Y303627-01			Prepared: 03/23/2023 Analyzed: 03/23/2023					
Diesel (C10-C28)	854	50.0	mg/kg	1000	ND	85.4	70-130	1.95	35	
Residual Range Organics (C28-C40)	782	200	"	1000	ND	78.2	70-130	3.73	35	
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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Project: Edna 1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C2341 - EPA 5030 (soil)</b>										
<b>Blank (B3C2341-BLK1)</b>					Prepared: 03/23/2023 Analyzed: 03/23/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.3	70-130			

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Project Number: [none]  
Project: Edna 1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C2341 - EPA 5030 (soil)</b>										
<b>LCS (B3C2341-BS1)</b>					Prepared: 03/23/2023 Analyzed: 03/23/2023					
1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.0991	0.00380	"	0.100		99.1	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.205	0.00400	"	0.200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.1	70-130			

Origins Laboratory, Inc.



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Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C2341 - EPA 5030 (soil)</b>										
<b>LCS Dup (B3C2341-BSD1)</b>					Prepared: 03/23/2023 Analyzed: 03/23/2023					
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130	1.90	20	
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100		111	70-130	0.875	20	
Benzene	0.105	0.00200	"	0.100		105	70-130	1.09	20	
Ethylbenzene	0.0994	0.00200	"	0.100		99.4	70-130	1.72	20	
Naphthalene	0.105	0.00380	"	0.100		105	70-130	5.84	20	
Toluene	0.106	0.00200	"	0.100		106	70-130	2.37	20	
o-Xylene	0.103	0.00200	"	0.100		103	70-130	2.34	20	
m,p-Xylene	0.200	0.00400	"	0.200		100	70-130	2.28	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		87.9	70-130			

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Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C2343 - EPA 5030 (soil)</b>										
<b>Blank (B3C2343-BLK1)</b>					Prepared: 03/23/2023 Analyzed: 03/23/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	103		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 Number: [none]  
Project: Edna 1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C2343 - EPA 5030 (soil)</b>										
<b>LCS (B3C2343-BS1)</b>					Prepared: 03/23/2023 Analyzed: 03/23/2023					
1,2,4-Trimethylbenzene	0.114	0.00200	mg/kg	0.100		114	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Benzene	0.0914	0.00200	"	0.100		91.4	70-130			
Ethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Naphthalene	0.108	0.00380	"	0.100		108	70-130			
Toluene	0.0954	0.00200	"	0.100		95.4	70-130			
o-Xylene	0.113	0.00200	"	0.100		113	70-130			
m,p-Xylene	0.210	0.00400	"	0.200		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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Dean Wagoner  
Project Number: [none]  
Project: Edna 1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C2343 - EPA 5030 (soil)</b>										
<b>LCS Dup (B3C2343-BSD1)</b>					Prepared: 03/23/2023 Analyzed: 03/23/2023					
1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100		113	70-130	1.06	20	
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100		108	70-130	0.297	20	
Benzene	0.0932	0.00200	"	0.100		93.2	70-130	1.99	20	
Ethylbenzene	0.110	0.00200	"	0.100		110	70-130	0.218	20	
Naphthalene	0.110	0.00380	"	0.100		110	70-130	1.21	20	
Toluene	0.0971	0.00200	"	0.100		97.1	70-130	1.77	20	
o-Xylene	0.113	0.00200	"	0.100		113	70-130	0.248	20	
m,p-Xylene	0.210	0.00400	"	0.200		105	70-130	0.228	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Dean Wagoner  
Project Number: [none]  
Project: Edna 1

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Classical Chemistry Parameters - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B3C2404 - DTPA Sorbitol Preparation

##### Blank (B3C2404-BLK1)

Prepared: 03/24/2023 Analyzed: 03/27/2023

Boron ND 0.100 mg/L

##### Duplicate (B3C2404-DUP1)

Source: Y303608-01

Prepared: 03/24/2023 Analyzed: 03/27/2023

Boron 0.126 0.0993 mg/L 0.118 6.27 50

#### Batch B3C2405 - DTPA Sorbitol Preparation

##### Blank (B3C2405-BLK1)

Prepared: 03/24/2023 Analyzed: 03/27/2023

Boron ND 0.100 mg/L

##### Duplicate (B3C2405-DUP1)

Source: Y303417-01

Prepared: 03/24/2023 Analyzed: 03/27/2023

Boron 0.398 0.100 mg/L 0.274 36.8 50

#### Batch B3C2406 - DTPA Sorbitol Preparation

##### Blank (B3C2406-BLK1)

Prepared: 03/24/2023 Analyzed: 03/27/2023

Boron ND 0.100 mg/L

##### Duplicate (B3C2406-DUP1)

Source: Y303508-29

Prepared: 03/24/2023 Analyzed: 03/27/2023

Boron 0.544 0.0984 mg/L 0.505 7.32 50

#### Batch B3C2407 - Saturated Paste Metals

##### Blank (B3C2407-BLK1)

Prepared: 03/24/2023 Analyzed: 03/27/2023

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Project Number: [none]  
Project: Edna 1

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B3C2407 - Saturated Paste Metals

#### Blank (B3C2407-BLK1)

Prepared: 03/24/2023 Analyzed: 03/27/2023

SAR	0.00		SAR
Calcium PPM	ND	10.0	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	10.0	"

#### Duplicate (B3C2407-DUP1)

Source: Y303608-01

Prepared: 03/24/2023 Analyzed: 03/27/2023

SAR	0.00		SAR	2.98	200	200
Calcium PPM	7.04	10.0	mg/L	4.85	36.9	50
Magnesium PPM	14.7	10.0	"	15.4	4.87	50
Sodium PPM	56.8	10.0	"	59.5	4.60	50

### Batch B3C2408 - Saturated Paste Metals

#### Blank (B3C2408-BLK1)

Prepared: 03/24/2023 Analyzed: 03/27/2023

Calcium PPM	ND	10.0	mg/L
SAR	0.00		SAR
Magnesium PPM	ND	10.0	mg/L
Sodium PPM	ND	10.0	"

#### Duplicate (B3C2408-DUP1)

Source: Y303627-04

Prepared: 03/24/2023 Analyzed: 03/27/2023

Calcium PPM	79.5	10.0	mg/L	80.2	0.883	50
SAR	0.00		SAR	6.10	200	200
Magnesium PPM	84.0	10.0	mg/L	85.7	1.94	50
Sodium PPM	326	10.0	"	330	1.23	50

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Project Number: [none]  
Project: Edna 1

## Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B3C2412 - Saturated Paste pH/EC

#### Blank (B3C2412-BLK1)

Prepared: 03/24/2023 Analyzed: 03/25/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

#### Duplicate (B3C2412-DUP1)

Source: Y303608-01

Prepared: 03/24/2023 Analyzed: 03/25/2023

pH	8.93		pH Units	8.87		0.674	25
Specific Conductance (EC)	0.424	0.00500	mmhos/cm	0.442		4.15	25

### Batch B3C2413 - Saturated Paste pH/EC

#### Blank (B3C2413-BLK1)

Prepared: 03/24/2023 Analyzed: 03/25/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

#### Duplicate (B3C2413-DUP1)

Source: Y303627-04

Prepared: 03/24/2023 Analyzed: 03/25/2023

Specific Conductance (EC)	2.38	0.00500	mmhos/cm	2.45		2.70	25
pH	8.11		pH Units	8.21		1.23	25

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Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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