

April 15, 2022

Verdad Resources

Dean Wagoner

1125 17th St Suite 550

Denver CO 80202

Project Name - Adam B Facility

Project Number - [none]

Attached are your analytical results for Adam B Facility received by Origins Laboratory, Inc. April 05, 2022. This project is associated with Origins project number Y204093-01.

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



Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Adam B Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Adam #1	Y204093-01	Soil	April 5, 2022 14:40	04/05/2022 17:05
Adam #2	Y204093-02	Soil	April 5, 2022 14:45	04/05/2022 17:05

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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Adam B Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y204093 Client: Verdad
 Client Project ID: ADAM B Fac.
 Checklist Completed by: JG Shipped Via: 4D
 Date/time completed: 4/6/22 (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, 17.1 °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 ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Same Day</u>
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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
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)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JG

Date/Time Reviewed 4-7-22

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: Adam B Facility

Adam #1

4/5/2022 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204093-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.992	mg/L	10	B2D0704	CW	04/07/2022	04/08/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D0804	ZZZ	04/08/2022	04/12/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	99.6 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1229	ZZZ	04/12/2022	04/13/2022	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	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Verdad Resources
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 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Adam B Facility

Adam #1

4/5/2022 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y204093-01 (Soil)**

Metals by Saturated Paste by EPA 6010

Calcium	0.758	0.499	meq/L	10	[CALC]	KAP	04/06/2022	04/12/2022	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	7.63		pH Units	1	B2D0616	ACC	04/06/2022	04/07/2022	
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SAR by 20B Saturated Paste

SAR	0.197		SAR	1	B2D0615	KAP	04/06/2022	04/12/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.627	0.00500	mmhos/cm	1	B2D0617	ACC	04/06/2022	04/07/2022	
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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Adam B Facility

Adam #2

4/5/2022 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y204093-02 (Soil)**

Boron (DTPA Sorbitol)

Boron	ND	0.0996	mg/L	1	B2D0704	CW	04/07/2022	04/08/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D0804	ZZZ	04/08/2022	04/12/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	91.2 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1229	ZZZ	04/12/2022	04/13/2022	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	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.2 %	70-130			"	"	"	"	

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Dean Wagoner
 Project Number: [none]
 Project: Adam B Facility

Adam #2

4/5/2022 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y204093-02 (Soil)**

Metals by Saturated Paste by EPA 6010

Calcium	0.569	0.499	meq/L	10	[CALC]	KAP	04/06/2022	04/12/2022	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	6.29		pH Units	1	B2D0616	ACC	04/06/2022	04/07/2022	
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SAR by 20B Saturated Paste

SAR	0.150		SAR	1	B2D0615	KAP	04/06/2022	04/12/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.118	0.00500	mmhos/cm	1	B2D0617	ACC	04/06/2022	04/07/2022	
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Verdad Resources
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Dean Wagoner
 Project Number: [none]
 Project: Adam B Facility

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 B2D0804 - EPA 3550B										
Blank (B2D0804-BLK1)										
					Prepared: 04/08/2022 Analyzed: 04/12/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		88.8	50-150			

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Dean Wagoner
 Project Number: [none]
 Project: Adam B Facility

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 B2D0804 - EPA 3550B

LCS (B2D0804-BS1)

Prepared: 04/08/2022 Analyzed: 04/12/2022

Diesel (C10-C28)	914	50.0	mg/kg	1000		91.4	70-130			
Residual Range Organics (C28-C40)	1170	200	"	1000		117	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.2	50-150			

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Dean Wagoner
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 Project: Adam B Facility

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 B2D0804 - EPA 3550B

Matrix Spike (B2D0804-MS1)	Source: Y204092-01			Prepared: 04/08/2022 Analyzed: 04/12/2022						
Diesel (C10-C28)	882	50.0	mg/kg	1000	ND	88.2	70-130			
Residual Range Organics (C28-C40)	1170	200	"	1000	153	101	70-130			
Surrogate: o-Terphenyl	46		"	49.8		93.2	50-150			

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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 B2D0804 - EPA 3550B										
Matrix Spike Dup (B2D0804-MSD1)					Source: Y204092-01					Prepared: 04/08/2022 Analyzed: 04/12/2022
Diesel (C10-C28)	783	50.0	mg/kg	1000	ND	78.3	70-130	11.8	35	
Residual Range Organics (C28-C40)	1070	200	"	1000	153	91.6	70-130	8.64	35	
Surrogate: o-Terphenyl	40		"	49.8		81.3	50-150			

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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 B2D1229 - EPA 5030 (soil)

Blank (B2D1229-BLK1)

Prepared: 04/12/2022 Analyzed: 04/12/2022

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	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.6	70-130			

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Verdad Resources
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Dean Wagoner
 Project Number: [none]
 Project: Adam B Facility

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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Batch B2D1229 - EPA 5030 (soil)

LCS (B2D1229-BS1)

Prepared: 04/12/2022 Analyzed: 04/12/2022

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.115	0.00200	"	0.100		115	70-130			
Ethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Naphthalene	0.0962	0.0100	"	0.100		96.2	70-130			
Toluene	0.118	0.00200	"	0.100		118	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.216	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.8	70-130			

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Dean Wagoner
 Project Number: [none]
 Project: Adam B Facility

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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Batch B2D1229 - EPA 5030 (soil)

Matrix Spike (B2D1229-MS1)	Source: Y204220-01			Prepared: 04/12/2022 Analyzed: 04/12/2022						
1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100	ND	116	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130			
Benzene	0.124	0.00200	"	0.100	ND	124	70-130			
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
Naphthalene	0.117	0.0100	"	0.100	ND	117	70-130			
Toluene	0.120	0.00200	"	0.100	ND	120	70-130			
o-Xylene	0.112	0.00200	"	0.100	ND	112	70-130			
m,p-Xylene	0.222	0.00400	"	0.200	ND	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	70-130			

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Dean Wagoner
 Project Number: [none]
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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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Batch B2D1229 - EPA 5030 (soil)

Matrix Spike Dup (B2D1229-MSD1)	Source: Y204220-01			Prepared: 04/12/2022 Analyzed: 04/12/2022						
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130	10.8	20	
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	10.7	20	
Benzene	0.107	0.00200	"	0.100	ND	107	70-130	14.9	20	
Ethylbenzene	0.0960	0.00200	"	0.100	ND	96.0	70-130	11.2	20	
Naphthalene	0.107	0.0100	"	0.100	ND	107	70-130	8.49	20	
Toluene	0.104	0.00200	"	0.100	ND	104	70-130	14.6	20	
o-Xylene	0.100	0.00200	"	0.100	ND	100	70-130	10.6	20	
m,p-Xylene	0.196	0.00400	"	0.200	ND	98.2	70-130	12.2	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

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Dean Wagoner
Project Number: [none]
Project: Adam B Facility

Notes and Definitions

U Sample is Non-Detect.

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

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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