

November 22, 2023

Verdad Resources

Dean Wagoner

1125 17th St Suite 550

Denver CO 80202

Project Name - Timbro 1-3-9-59

Project Number - [none]

Attached are your analytical results for Timbro 1-3-9-59 received by Origins Laboratory, Inc. November 09, 2023. This project is associated with Origins project number Y311282-01.

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: Timbro 1-3-9-59

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Timbro 1-3-9-59 WFL End	Y311282-01	Soil	November 9, 2023 8:50	11/09/2023 15:31
Timbro 1-3-9-59 EFL End	Y311282-02	Soil	November 9, 2023 8:55	11/09/2023 15:31

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: Timbro 1-3-9-59

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311282 page 1 of 1

ORIGINS
LABORATORY, INC

Client: Verdad Resources Project Manager: Dean Wagoner
 Address: 1125 17th Street Suite 550 Project Name: Timbro 1-3-9-59
Denver CO 80202 Project Number: _____
 Telephone Number: 720 845 6900 Samples Collected By: Dean Wagoner
 Email Address: mwagner@verdadresources.com d.wagoner@verdadresources.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	Date:		Time:
Timbro 1-3-9-59 WFL End	11-9-23	8:36am	3						X				1	
Timbro 1-3-9-59 EFL End	11-9-23	8:55am	3						X				2	
													3	
													4	
													5	
													6	
													7	
													8	
													9	
													10	


Relinquished By: Dean Wagoner Date: 11-9-23 Time: _____
 Relinquished By: _____ Date: _____ Time: _____

Received By: [Signature] Date: 11/9/23 Time: 1:31
 Received By: _____ Date: _____ Time: _____

Turnaround Time: Same Day 24 Hr
 48 Hr 72 Hr
 Standard

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Temp Received- 10 Date Results Needed _____

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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: UB11282 Client: Verdad
 Client Project ID: Timbro 1-3-9-59
 Checklist Completed by: EHS Shipped Via: HD
 Date/time completed: 11/9/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1110 °C 1 °C 1 °C (Describe) °C
 Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		X		SD
Is there ice present (document if blue ice is used)		X		
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 11/13/23

Origins Laboratory, Inc.

[Signature]

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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

Timbro 1-3-9-59 WFL End
11/9/2023 8:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311282-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.478		0.0999	mg/L	1	B3K1308	11/13/2023	11/14/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3K1001	11/10/2023	11/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3K1037	11/10/2023	11/11/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %		70-130			"	"	"	
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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

Timbro 1-3-9-59 WFL End
11/9/2023 8:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311282-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	94.0 %		70-130			B3K10 37	11/10/2023	11/11/2023	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.74	0.499	meq/L	10	[CALC]		11/11/2023	11/13/2023	
Magnesium	1.18	0.823	"	"	"		"	"	
Sodium	2.86	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K1032		11/10/2023	11/16/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"		"	"	U
Acenaphthene	ND	0.020	"	"	"		"	"	U
Anthracene	ND	0.020	"	"	"		"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	U
Chrysene	ND	0.020	"	"	"		"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	U
Fluoranthene	ND	0.020	"	"	"		"	"	U

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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

Timbro 1-3-9-59 WFL End
11/9/2023 8:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311282-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3K1032	11/10/2023	11/16/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	88.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	94.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.12			pH Units	1	B3K1106	11/11/2023	11/12/2023	
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SAR by 20B Saturated Paste

SAR	1.82		0.0100	SAR	1	B3K1102	11/11/2023	11/13/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.931		0.00500	mmhos/cm	1	B3K1106	11/11/2023	11/12/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Verdad Resources
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 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

Timbro 1-3-9-59 WFL End
11/9/2023 8:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311282-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.76		0.0887	mg/kg	10	B3K1421	11/16/2023	11/17/2023	
Barium	434		8.87	"	"	"	"	"	
Cadmium	0.291		0.0887	"	"	"	"	"	
Copper	11.6		8.87	"	"	"	"	"	
Lead	14.0		8.87	"	"	"	"	"	
Nickel	ND		8.87	"	"	"	"	"	
Selenium	0.108		0.0887	"	"	"	"	"	
Silver	ND		0.0887	"	"	"	"	"	
Zinc	ND		88.7	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L717227	11/09/2023	11/15/2023	
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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

Timbro 1-3-9-59 EFL End
11/9/2023 8:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311282-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.451		0.0984	mg/L	1	B3K1308	11/13/2023	11/14/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3K1001	11/10/2023	11/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3K1037	11/10/2023	11/11/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			"	"	"	
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 1125 17th St Suite 550
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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

Timbro 1-3-9-59 EFL End
11/9/2023 8:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311282-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	94.7 %		70-130			B3K10 37	11/10/2023	11/11/2023	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	10.3	0.499	meq/L	10	[CALC]		11/11/2023	11/13/2023	
Magnesium	3.11	0.823	"	"	"		"	"	
Sodium	4.76	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K1032		11/10/2023	11/16/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"		"	"	U
Acenaphthene	ND	0.020	"	"	"		"	"	U
Anthracene	ND	0.020	"	"	"		"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	U
Chrysene	ND	0.020	"	"	"		"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	U
Fluoranthene	ND	0.020	"	"	"		"	"	U

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 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

Timbro 1-3-9-59 EFL End
11/9/2023 8:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311282-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3K1032	11/10/2023	11/16/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	103 %		60-130			"	"	"	
Surrogate: Pyrene-d10	96.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.4 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.01			pH Units	1	B3K1106	11/11/2023	11/12/2023	
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SAR by 20B Saturated Paste

SAR	1.84		0.0100	SAR	1	B3K1102	11/11/2023	11/13/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.88		0.00500	mmhos/cm	1	B3K1106	11/11/2023	11/12/2023	
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Table 915 metals by EPA 6020B

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Verdad Resources
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 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

Timbro 1-3-9-59 EFL End
11/9/2023 8:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311282-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.53		0.0994	mg/kg	10	B3K1421	11/16/2023	11/17/2023	
Barium	481		9.94	"	"	"	"	"	
Cadmium	0.403		0.0994	"	"	"	"	"	
Copper	16.0		9.94	"	"	"	"	"	
Lead	ND		9.94	"	"	"	"	"	
Nickel	ND		9.94	"	"	"	"	"	
Selenium	0.124		0.0994	"	"	"	"	"	
Silver	ND		0.0994	"	"	"	"	"	
Zinc	ND		99.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L717227	11/09/2023	11/15/2023	
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 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

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 B3K1001 - EPA 3550B										
Blank (B3K1001-BLK1)										
					Prepared: 11/10/2023 Analyzed: 11/13/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		88.0	50-150			

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 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

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 B3K1001 - EPA 3550B

LCS (B3K1001-BS1)

Prepared: 11/10/2023 Analyzed: 11/13/2023

Diesel (C10-C28)	992	50.0	mg/kg	1000		99.2	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.7	50-150			

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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

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 B3K1001 - EPA 3550B

Matrix Spike (B3K1001-MS1)	Source: Y311228-01			Prepared: 11/10/2023 Analyzed: 11/13/2023						
Diesel (C10-C28)	1090	50.0	mg/kg	1000	ND	109	70-130			
Residual Range Organics (C28-C40)	1180	200	"	1000	ND	118	70-130			
Surrogate: o-Terphenyl	59		"	49.8		118	50-150			

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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

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 B3K1001 - EPA 3550B

Matrix Spike Dup (B3K1001-MSD1)	Source: Y311228-01			Prepared: 11/10/2023 Analyzed: 11/13/2023						
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130	5.99	35	
Residual Range Organics (C28-C40)	1110	200	"	1000	ND	111	70-130	6.11	35	
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

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Verdad Resources
 1125 17th St Suite 550
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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

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 B3K1037 - EPA 5030 (soil)

Blank (B3K1037-BLK1)

Prepared: 11/10/2023 Analyzed: 11/10/2023

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	108		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	95.4		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	106		70-130			

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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

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 B3K1037 - EPA 5030 (soil)

LCS (B3K1037-BS1)

Prepared: 11/10/2023 Analyzed: 11/10/2023

1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.0873	0.00200	"	0.100		87.3	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Naphthalene	0.106	0.00380	"	0.100		106	70-130			
Toluene	0.0858	0.00200	"	0.100		85.8	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.215	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

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 B3K1037 - EPA 5030 (soil)

Matrix Spike (B3K1037-MS1)	Source: Y311281-02			Prepared: 11/10/2023 Analyzed: 11/10/2023						
1,2,4-Trimethylbenzene	0.0914	0.00200	mg/kg	0.100	ND	91.4	70-130			
1,3,5-Trimethylbenzene	0.0920	0.00200	"	0.100	ND	92.0	70-130			
Benzene	0.0895	0.00200	"	0.100	ND	89.5	70-130			
Ethylbenzene	0.0832	0.00200	"	0.100	ND	83.2	70-130			
Naphthalene	0.0764	0.00380	"	0.100	ND	76.4	70-130			
Toluene	0.0817	0.00200	"	0.100	ND	81.7	70-130			
o-Xylene	0.0752	0.00200	"	0.100	ND	75.2	70-130			
m,p-Xylene	0.159	0.00400	"	0.200	ND	79.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

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 B3K1037 - EPA 5030 (soil)

Matrix Spike Dup (B3K1037-MSD1)	Source: Y311281-02		Prepared: 11/10/2023 Analyzed: 11/10/2023							
1,2,4-Trimethylbenzene	0.0958	0.00200	mg/kg	0.100	ND	95.8	70-130	4.72	20	
1,3,5-Trimethylbenzene	0.0971	0.00200	"	0.100	ND	97.1	70-130	5.39	20	
Benzene	0.0939	0.00200	"	0.100	ND	93.9	70-130	4.82	20	
Ethylbenzene	0.0900	0.00200	"	0.100	ND	90.0	70-130	7.92	20	
Naphthalene	0.0828	0.00380	"	0.100	ND	82.8	70-130	8.06	20	
Toluene	0.0867	0.00200	"	0.100	ND	86.7	70-130	5.94	20	
o-Xylene	0.0784	0.00200	"	0.100	ND	78.4	70-130	4.16	20	
m,p-Xylene	0.171	0.00400	"	0.200	ND	85.6	70-130	7.44	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

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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Metals by EPA 6000/7000 Series Methods - 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 B3K1421 - EPA 3050B

Blank (B3K1421-BLK1)

Prepared: 11/16/2023 Analyzed: 11/17/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3K1421-BS1)

Prepared: 11/16/2023 Analyzed: 11/17/2023

Arsenic	0.0553	0.000100	mg/kg	0.0500		111	80-120			
Barium	5.41	0.0100	"	5.00		108	80-120			
Cadmium	0.0550	0.000100	"	0.0500		110	80-120			
Copper	0.530	0.0100	"	0.500		106	80-120			
Lead	0.0534	0.0100	"	0.0500		107	80-120			
Nickel	0.0528	0.0100	"	0.0500		106	80-120			
Selenium	0.0533	0.000100	"	0.0500		107	80-120			
Silver	0.0539	0.000100	"	0.0500		108	80-120			
Zinc	0.518	0.100	"	0.500		104	80-120			

Matrix Spike (B3K1421-MS1)

Source: Y311232-12

Prepared: 11/16/2023 Analyzed: 11/17/2023

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 Project Number: [none]
 Project: Timbro 1-3-9-59

Metals by EPA 6000/7000 Series Methods - 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 B3K1421 - EPA 3050B

Matrix Spike (B3K1421-MS1)		Source: Y311232-12			Prepared: 11/16/2023 Analyzed: 11/17/2023					
Arsenic	8.96	0.0834	mg/kg	4.17	5.03	94.3	75-125			
Barium	609	8.34	"	417	128	115	75-125			
Cadmium	4.93	0.0834	"	4.17	0.188	114	75-125			
Copper	53.8	8.34	"	41.7	13.2	97.4	75-125			
Lead	15.0	8.34	"	4.17	11.9	74.2	75-125			QM-07
Nickel	16.0	8.34	"	4.17	12.9	73.6	75-125			QM-07
Selenium	4.33	0.0834	"	4.17	0.126	101	75-125			
Silver	4.65	0.0834	"	4.17	0.0538	110	75-125			
Zinc	86.0	83.4	"	41.7	49.5	87.3	75-125			

Matrix Spike Dup (B3K1421-MSD1)		Source: Y311232-12			Prepared: 11/16/2023 Analyzed: 11/17/2023					
Arsenic	10.1	0.0913	mg/kg	4.57	5.03	111	75-125	11.8	20	
Barium	656	9.13	"	457	128	116	75-125	7.47	20	
Cadmium	5.47	0.0913	"	4.57	0.188	116	75-125	10.4	20	
Copper	60.8	9.13	"	45.7	13.2	104	75-125	12.3	20	
Lead	17.0	9.13	"	4.57	11.9	113	75-125	12.9	20	
Nickel	17.7	9.13	"	4.57	12.9	104	75-125	9.96	20	
Selenium	4.70	0.0913	"	4.57	0.126	100	75-125	8.35	20	
Silver	5.13	0.0913	"	4.57	0.0538	111	75-125	9.80	20	
Zinc	95.9	91.3	"	45.7	49.5	102	75-125	11.0	20	

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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3K1032 - EPA 3580

Blank (B3K1032-BLK1)

Prepared: 11/10/2023 Analyzed: 11/16/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	240		"	200		118	60-130			
Surrogate: Pyrene-d10	190		"	200		96.4	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		92.7	60-130			

LCS (B3K1032-BS1)

Prepared: 11/10/2023 Analyzed: 11/16/2023

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200		99.3	70-130			
2-Methylnaphthalene	0.198	0.002	"	0.200		99.2	70-130			
Acenaphthene	0.197	0.020	"	0.200		98.4	70-130			
Anthracene	0.188	0.020	"	0.200		93.8	70-130			

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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3K1032 - EPA 3580

LCS (B3K1032-BS1)

Prepared: 11/10/2023 Analyzed: 11/16/2023

Benzo (a) anthracene	0.210	0.005	mg/kg	0.200		105	70-130			
Benzo (a) pyrene	0.189	0.020	"	0.200		94.7	70-130			
Benzo (b) fluoranthene	0.164	0.020	"	0.200		81.8	70-130			
Benzo (g,h,i) perylene	0.192	0.020	"	0.200		95.9	70-130			
Benzo (k) fluoranthene	0.206	0.020	"	0.200		103	70-130			
Chrysene	0.184	0.020	"	0.200		91.9	70-130			
Dibenz (a,h) anthracene	0.189	0.020	"	0.200		94.7	70-130			
Fluoranthene	0.220	0.020	"	0.200		110	70-130			
Fluorene	0.197	0.020	"	0.200		98.7	70-130			
Indeno (1,2,3-cd) pyrene	0.230	0.020	"	0.200		115	70-130			
Naphthalene	0.202	0.002	"	0.200		101	70-130			
Phenanthrene	0.190	0.020	"	0.200		94.8	70-130			
Pyrene	0.178	0.020	"	0.200		89.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.5	60-130			
Surrogate: Anthracene-d10	220		"	200		108	60-130			
Surrogate: Pyrene-d10	190		"	200		94.2	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.7	60-130			

Matrix Spike (B3K1032-MS1)

Source: Y311282-01

Prepared: 11/10/2023 Analyzed: 11/16/2023

1-Methylnaphthalene	0.206	0.002	mg/kg	0.200	ND	103	70-130			
2-Methylnaphthalene	0.202	0.002	"	0.200	ND	101	70-130			
Acenaphthene	0.202	0.020	"	0.200	ND	101	70-130			
Anthracene	0.204	0.020	"	0.200	ND	102	70-130			
Benzo (a) anthracene	0.202	0.005	"	0.200	0.0008	101	70-130			
Benzo (a) pyrene	0.201	0.020	"	0.200	ND	100	70-130			
Benzo (b) fluoranthene	0.170	0.020	"	0.200	ND	85.1	70-130			
Benzo (g,h,i) perylene	0.200	0.020	"	0.200	ND	99.9	70-130			

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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3K1032 - EPA 3580

Matrix Spike (B3K1032-MS1)		Source: Y311282-01			Prepared: 11/10/2023 Analyzed: 11/16/2023					
Benzo (k) fluoranthene	0.216	0.020	mg/kg	0.200	ND	108	70-130			
Chrysene	0.189	0.020	"	0.200	ND	94.5	70-130			
Dibenz (a,h) anthracene	0.195	0.020	"	0.200	ND	97.6	70-130			
Fluoranthene	0.222	0.020	"	0.200	0.0007	111	70-130			
Fluorene	0.202	0.020	"	0.200	ND	101	70-130			
Indeno (1,2,3-cd) pyrene	0.200	0.020	"	0.200	ND	100	70-130			
Naphthalene	0.205	0.002	"	0.200	ND	103	70-130			
Phenanthrene	0.194	0.020	"	0.200	ND	96.8	70-130			
Pyrene	0.188	0.020	"	0.200	ND	93.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		96.6	60-130			
Surrogate: Pyrene-d10	190		"	200		95.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike Dup (B3K1032-MSD1)		Source: Y311282-01			Prepared: 11/10/2023 Analyzed: 11/16/2023					
1-Methylnaphthalene	0.187	0.002	mg/kg	0.200	ND	93.3	70-130	10.0	20	
2-Methylnaphthalene	0.175	0.002	"	0.200	ND	87.6	70-130	14.2	20	
Acenaphthene	0.179	0.020	"	0.200	ND	89.3	70-130	12.1	20	
Anthracene	0.178	0.020	"	0.200	ND	89.2	70-130	13.7	20	
Benzo (a) anthracene	0.162	0.005	"	0.200	0.0008	80.7	70-130	22.1	20	QR-02
Benzo (a) pyrene	0.178	0.020	"	0.200	ND	88.9	70-130	12.2	20	
Benzo (b) fluoranthene	0.156	0.020	"	0.200	ND	78.1	70-130	8.61	20	
Benzo (g,h,i) perylene	0.177	0.020	"	0.200	ND	88.5	70-130	12.1	20	
Benzo (k) fluoranthene	0.177	0.020	"	0.200	ND	88.6	70-130	19.6	20	
Chrysene	0.181	0.020	"	0.200	ND	90.5	70-130	4.31	20	
Dibenz (a,h) anthracene	0.173	0.020	"	0.200	ND	86.4	70-130	12.2	20	
Fluoranthene	0.198	0.020	"	0.200	0.0007	98.7	70-130	11.3	20	

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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3K1032 - EPA 3580

Matrix Spike Dup (B3K1032-MSD1)	Source: Y311282-01			Prepared: 11/10/2023 Analyzed: 11/16/2023						
Fluorene	0.180	0.020	mg/kg	0.200	ND	90.2	70-130	11.3	20	
Indeno (1,2,3-cd) pyrene	0.179	0.020	"	0.200	ND	89.3	70-130	11.3	20	
Naphthalene	0.181	0.002	"	0.200	ND	90.3	70-130	12.8	20	
Phenanthrene	0.169	0.020	"	0.200	ND	84.7	70-130	13.4	20	
Pyrene	0.170	0.020	"	0.200	ND	85.2	70-130	9.63	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.9	60-130			
Surrogate: Anthracene-d10	160		"	200		81.4	60-130			
Surrogate: Pyrene-d10	200		"	200		98.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.8	60-130			

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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

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 B3K1102 - Saturated Paste Metals

Blank (B3K1102-BLK1)

Prepared: 11/11/2023 Analyzed: 11/13/2023

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

Duplicate (B3K1102-DUP1)

Source: Y311243-01

Prepared: 11/11/2023 Analyzed: 11/13/2023

SAR	ND	0.0100	SAR		0.517				200	
Calcium PPM	8.80	10.0	mg/L		3.47			86.9	50	QR-DUP
Magnesium PPM	6.74	10.0	"		1.58			124	50	QR-DUP
Sodium PPM	6.13	10.0	"		4.63			27.9	50	

Batch B3K1308 - DTPA Sorbitol Preparation

Blank (B3K1308-BLK1)

Prepared: 11/13/2023 Analyzed: 11/14/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3K1308-DUP1)

Source: Y311282-01

Prepared: 11/13/2023 Analyzed: 11/14/2023

Boron	0.491	0.0992	mg/L		0.478			2.63	50	
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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: Timbro 1-3-9-59

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3K1106 - Saturated Paste pH/EC										
Blank (B3K1106-BLK1)					Prepared: 11/11/2023 Analyzed: 11/12/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3K1106-DUP1)					Source: Y311243-01 Prepared: 11/11/2023 Analyzed: 11/12/2023					
pH	7.23		pH Units		7.28			0.689	25	
Specific Conductance (EC)	0.0593	0.00500	mmhos/cm		0.0602			1.51	25	

Origins Laboratory, Inc.



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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-3-9-59

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L717227 -										
DUP (L 96332-DUP)		Source: Y311282-02			Prepared: Analyzed: 11/15/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 96332-MS)		Source: Y311282-02			Prepared: Analyzed: 11/15/2023					
Chromium, Hexavalent	25.6	2.5	mg/Kg	39.2	<1.22	65	75-125			*
LCS (LCS)		Prepared: Analyzed: 11/15/2023								
Chromium, Hexavalent	7.2	0.5	mg/Kg	8		90	75-125			
LRB (LRB)		Prepared: Analyzed: 11/15/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Verdad Resources
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Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-3-9-59

Notes and Definitions

U Sample is Non-Detect.

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

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

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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