

December 29, 2023

Verdad Resources

Dean Wagoner

1125 17th St Suite 550

Denver CO 80202

Project Name - Timbro 1-41-9-59

Project Number - [none]

Attached are your analytical results for Timbro 1-41-9-59 received by Origins Laboratory, Inc. December 06, 2023. This project is associated with Origins project number Y312150-01.

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 1-41-9-59

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Timbro 1-41 Sales	Y312150-01	Soil	December 5, 2023 10:45	12/06/2023 11:58

Origins Laboratory, Inc.



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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-41-9-59

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: UB12150 Client: Verdad
 Client Project ID: Timbro 1-41-9-59
 Checklist Completed by: CHS Shipped Via: HD
 Date/time completed: 12/19/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)
 Cooler Number/Temperature: 115 °C 1 °C 1 °C 1 °C
 Thermometer ID: 1004

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"/>		
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) [Signature]

Date/Time Reviewed 12/17/23

Origins Laboratory, Inc.

[Signature]

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Verdad Resources
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 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-41-9-59

Timbro 1-41 Sales
12/5/2023 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312150-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.505		0.0991	mg/L	1	B3L1106	12/11/2023	12/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L0701	12/07/2023	12/09/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	103 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L0638	12/06/2023	12/11/2023	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	93.8 %		70-130			"	"	"	
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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-41-9-59

Timbro 1-41 Sales
12/5/2023 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312150-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.7 %		70-130			B3L06 38	12/06/2023	12/11/2023	
Surrogate: 4-Bromofluorobenzene	109 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.86	0.499	meq/L	10	[CALC]		12/08/2023	12/12/2023	
Magnesium	1.05	0.823	"	"	"	"	"	"	
Sodium	1.78	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L0718		12/07/2023	12/11/2023	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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 Project: Timbro 1-41-9-59

Timbro 1-41 Sales
12/5/2023 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312150-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3L0718	12/07/2023	12/11/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	107 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	93.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.25			pH Units	1	B3L0811	12/08/2023	12/09/2023	
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SAR by 20B Saturated Paste

SAR	1.27		0.0100	SAR	1	B3L0806	12/08/2023	12/12/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.658		0.00500	mmhos/cm	1	B3L0811	12/08/2023	12/09/2023	
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Total Metals by 6020B

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Timbro 1-41 Sales
12/5/2023 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y312150-01 (Soil)

Total Metals by 6020B

Arsenic	2.26	0.0855	0.25	mg/Kg	5	L721430	12/08/2023	12/28/2023	
Barium	398	0.042	0.25	"	"	"	"	"	
Cadmium	0.0824	0.026	0.25	"	"	"	"	"	J
Copper	10.9	0.0805	0.25	"	"	"	"	"	
Lead	8.79	0.031	0.25	"	"	"	"	"	
Nickel	9.1	0.0635	0.25	"	"	"	"	"	
Selenium	0.683	0.103	0.25	"	"	"	"	"	
Silver	0.0328	0.0067	0.25	"	"	"	"	"	J
Zinc	41.3	0.535	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L721732	12/05/2023	12/12/2023	
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 Project Number: [none]
 Project: Timbro 1-41-9-59

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 B3L0638 - EPA 5030 (soil)

Blank (B3L0638-BLK1)

Prepared: 12/06/2023 Analyzed: 12/11/2023

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	0.095		"	0.125	76.4		70-130			
Surrogate: Toluene-d8	0.14		"	0.125	108		70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125	110		70-130			

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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 B3L0638 - EPA 5030 (soil)

LCS (B3L0638-BS1)

Prepared: 12/06/2023 Analyzed: 12/11/2023

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.0982	0.00200	"	0.100		98.2	70-130			
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Naphthalene	0.120	0.00380	"	0.100		120	70-130			
Toluene	0.0922	0.00200	"	0.100		92.2	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.197	0.00400	"	0.200		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		81.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

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 Project: Timbro 1-41-9-59

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 B3L0638 - EPA 5030 (soil)

Matrix Spike (B3L0638-MS1)	Source: Y312128-01			Prepared: 12/06/2023 Analyzed: 12/11/2023						
1,2,4-Trimethylbenzene	0.114	0.00200	mg/kg	0.100	ND	114	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130			
Benzene	0.103	0.00200	"	0.100	ND	103	70-130			
Ethylbenzene	0.121	0.00200	"	0.100	ND	121	70-130			
Naphthalene	0.131	0.00380	"	0.100	ND	131	70-130			QM-07
Toluene	0.104	0.00200	"	0.100	ND	104	70-130			
o-Xylene	0.127	0.00200	"	0.100	ND	127	70-130			
m,p-Xylene	0.228	0.00400	"	0.200	ND	114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		82.9	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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Dean Wagoner
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 Project: Timbro 1-41-9-59

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 B3L0638 - EPA 5030 (soil)

Matrix Spike Dup (B3L0638-MSD1)	Source: Y312128-01			Prepared: 12/06/2023 Analyzed: 12/11/2023						
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130	11.9	20	
1,3,5-Trimethylbenzene	0.0961	0.00200	"	0.100	ND	96.1	70-130	13.2	20	
Benzene	0.0907	0.00200	"	0.100	ND	90.7	70-130	13.1	20	
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	13.0	20	
Naphthalene	0.114	0.00380	"	0.100	ND	114	70-130	13.4	20	
Toluene	0.0878	0.00200	"	0.100	ND	87.8	70-130	16.8	20	
o-Xylene	0.112	0.00200	"	0.100	ND	112	70-130	13.3	20	
m,p-Xylene	0.197	0.00400	"	0.200	ND	98.6	70-130	14.6	20	
Surrogate: 1,2-Dichloroethane-d4	0.095		"	0.125		76.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.1	70-130			

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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
Batch B3L0701 - EPA 3550B										
Blank (B3L0701-BLK1)										
					Prepared: 12/07/2023 Analyzed: 12/09/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		106	50-150			

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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-41-9-59

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 B3L0701 - EPA 3550B

LCS (B3L0701-BS1)

Prepared: 12/07/2023 Analyzed: 12/09/2023

Diesel (C10-C28)	885	50.0	mg/kg	1000		88.5	70-130			
Residual Range Organics (C28-C40)	945	200	"	1000		94.5	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	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 B3L0701 - EPA 3550B

Matrix Spike (B3L0701-MS1)	Source: Y312131-01			Prepared: 12/07/2023 Analyzed: 12/09/2023						
Diesel (C10-C28)	913	50.0	mg/kg	1000	ND	91.3	70-130			
Residual Range Organics (C28-C40)	979	200	"	1000	ND	97.9	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	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 B3L0701 - EPA 3550B										
Matrix Spike Dup (B3L0701-MSD1)		Source: Y312131-01			Prepared: 12/07/2023 Analyzed: 12/09/2023					
Diesel (C10-C28)	932	50.0	mg/kg	1000	ND	93.2	70-130	2.06	35	
Residual Range Organics (C28-C40)	994	200	"	1000	ND	99.4	70-130	1.52	35	
Surrogate: o-Terphenyl	50		"	49.8		101	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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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 B3L0718 - EPA 3580

Blank (B3L0718-BLK1)

Prepared: 12/07/2023 Analyzed: 12/11/2023

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
<hr/>										
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	200		"	200		99.1	60-130			
Surrogate: Pyrene-d10	190		"	200		93.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.8	60-130			

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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-41-9-59

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 B3L0718 - EPA 3580

LCS (B3L0718-BS1)

Prepared: 12/07/2023 Analyzed: 12/11/2023

1-Methylnaphthalene	0.216	0.002	mg/kg	0.200		108	70-130			
2-Methylnaphthalene	0.215	0.002	"	0.200		107	70-130			
Acenaphthene	0.208	0.020	"	0.200		104	70-130			
Anthracene	0.220	0.020	"	0.200		110	70-130			
Benzo (a) anthracene	0.217	0.005	"	0.200		108	70-130			
Benzo (a) pyrene	0.207	0.020	"	0.200		103	70-130			
Benzo (b) fluoranthene	0.198	0.020	"	0.200		99.1	70-130			
Benzo (g,h,i) perylene	0.228	0.020	"	0.200		114	70-130			
Benzo (k) fluoranthene	0.180	0.020	"	0.200		89.8	70-130			
Chrysene	0.209	0.020	"	0.200		105	70-130			
Dibenz (a,h) anthracene	0.226	0.020	"	0.200		113	70-130			
Fluoranthene	0.219	0.020	"	0.200		110	70-130			
Fluorene	0.218	0.020	"	0.200		109	70-130			
Indeno (1,2,3-cd) pyrene	0.235	0.020	"	0.200		118	70-130			
Naphthalene	0.209	0.002	"	0.200		105	70-130			
Phenanthrene	0.204	0.020	"	0.200		102	70-130			
Pyrene	0.189	0.020	"	0.200		94.4	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	200		"	200		97.6	60-130			
Surrogate: Pyrene-d10	180		"	200		92.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.1	60-130			

Matrix Spike (B3L0718-MS1)

Source: Y312116-01

Prepared: 12/07/2023 Analyzed: 12/11/2023

1-Methylnaphthalene	0.224	0.002	mg/kg	0.200	ND	112	70-130			
2-Methylnaphthalene	0.219	0.002	"	0.200	ND	109	70-130			
Acenaphthene	0.214	0.020	"	0.200	ND	107	70-130			
Anthracene	0.227	0.020	"	0.200	ND	114	70-130			

Origins Laboratory, Inc.



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Verdad Resources
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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-41-9-59

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 B3L0718 - EPA 3580

Matrix Spike (B3L0718-MS1)		Source: Y312116-01			Prepared: 12/07/2023 Analyzed: 12/11/2023					
Benzo (a) anthracene	0.206	0.005	mg/kg	0.200	ND	103	70-130			
Benzo (a) pyrene	0.215	0.020	"	0.200	ND	108	70-130			
Benzo (b) fluoranthene	0.205	0.020	"	0.200	ND	103	70-130			
Benzo (g,h,i) perylene	0.230	0.020	"	0.200	ND	115	70-130			
Benzo (k) fluoranthene	0.172	0.020	"	0.200	ND	86.0	70-130			
Chrysene	0.196	0.020	"	0.200	ND	98.1	70-130			
Dibenz (a,h) anthracene	0.231	0.020	"	0.200	ND	115	70-130			
Fluoranthene	0.224	0.020	"	0.200	0.0004	112	70-130			
Fluorene	0.230	0.020	"	0.200	ND	115	70-130			
Indeno (1,2,3-cd) pyrene	0.231	0.020	"	0.200	ND	115	70-130			
Naphthalene	0.213	0.002	"	0.200	ND	107	70-130			
Phenanthrene	0.209	0.020	"	0.200	ND	104	70-130			
Pyrene	0.193	0.020	"	0.200	ND	96.3	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	200		"	200		98.2	60-130			
Surrogate: Pyrene-d10	180		"	200		91.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike Dup (B3L0718-MSD1)		Source: Y312116-01			Prepared: 12/07/2023 Analyzed: 12/11/2023					
1-Methylnaphthalene	0.216	0.002	mg/kg	0.200	ND	108	70-130	3.60	20	
2-Methylnaphthalene	0.217	0.002	"	0.200	ND	108	70-130	0.848	20	
Acenaphthene	0.209	0.020	"	0.200	ND	104	70-130	2.70	20	
Anthracene	0.215	0.020	"	0.200	ND	107	70-130	5.75	20	
Benzo (a) anthracene	0.199	0.005	"	0.200	ND	99.4	70-130	3.64	20	
Benzo (a) pyrene	0.219	0.020	"	0.200	ND	110	70-130	1.90	20	
Benzo (b) fluoranthene	0.202	0.020	"	0.200	ND	101	70-130	1.41	20	
Benzo (g,h,i) perylene	0.221	0.020	"	0.200	ND	111	70-130	3.86	20	

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Verdad Resources
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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-41-9-59

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 B3L0718 - EPA 3580

Matrix Spike Dup (B3L0718-MSD1)	Source: Y312116-01			Prepared: 12/07/2023 Analyzed: 12/11/2023						
Benzo (k) fluoranthene	0.173	0.020	mg/kg	0.200	ND	86.4	70-130	0.473	20	
Chrysene	0.194	0.020	"	0.200	ND	97.2	70-130	0.948	20	
Dibenz (a,h) anthracene	0.224	0.020	"	0.200	ND	112	70-130	3.12	20	
Fluoranthene	0.222	0.020	"	0.200	0.0004	111	70-130	1.09	20	
Fluorene	0.215	0.020	"	0.200	ND	108	70-130	6.55	20	
Indeno (1,2,3-cd) pyrene	0.225	0.020	"	0.200	ND	113	70-130	2.40	20	
Naphthalene	0.212	0.002	"	0.200	ND	106	70-130	0.820	20	
Phenanthrene	0.206	0.020	"	0.200	ND	103	70-130	1.62	20	
Pyrene	0.191	0.020	"	0.200	ND	95.6	70-130	0.771	20	
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	200		"	200		98.0	60-130			
Surrogate: Pyrene-d10	190		"	200		92.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Origins Laboratory, Inc.



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Verdad Resources
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 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-41-9-59

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 B3L0806 - Saturated Paste Metals

Blank (B3L0806-BLK1)

Prepared: 12/08/2023 Analyzed: 12/12/2023

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

Duplicate (B3L0806-DUP1)

Source: Y312098-01

Prepared: 12/08/2023 Analyzed: 12/12/2023

SAR	ND	0.0100	SAR		0.211				200	
Calcium PPM	28.2	10.0	mg/L		24.2			15.0	50	
Magnesium PPM	6.32	10.0	"		6.03			4.70	50	
Sodium PPM	4.88	10.0	"		4.47			8.77	50	

Batch B3L1106 - DTPA Sorbitol Preparation

Blank (B3L1106-BLK1)

Prepared: 12/11/2023 Analyzed: 12/12/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3L1106-DUP1)

Source: Y312150-01

Prepared: 12/11/2023 Analyzed: 12/12/2023

Boron	0.509	0.0997	mg/L		0.505			0.910	50	
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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-41-9-59

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L0811 - Saturated Paste pH/EC										
Blank (B3L0811-BLK1)					Prepared: 12/08/2023 Analyzed: 12/09/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3L0811-DUP1)					Source: Y312098-01 Prepared: 12/08/2023 Analyzed: 12/09/2023					
pH	8.27		pH Units		8.28			0.121	25	
Specific Conductance (EC)	0.297	0.00500	mmhos/cm		0.232			24.6	25	

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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-41-9-59

Total Metals by 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L721430 - 3050B

MSD (L 89014-MSD-L721430)	Source: 89014			Prepared: 12/08/2023 Analyzed: 12/28/2023						
Arsenic	5.91	0.25	mg/Kg	2.5	3.59	93	75-125	16.4	80	
Zinc	41.4	2.5	"	25	21.1	81	75-125	7.5	80	
Silver	0.467	0.25	"	0.5	0.0174	90	75-125	1	80	
Selenium	4.77	0.25	"	5	0.47	86	75-125	7.3	80	
Nickel	6.73	0.25	"	2.5	5.21	61	75-125	9	80	*
Lead	6.26	0.25	"	2.5	4.65	64	75-125	1.2	80	*
Copper	6.81	0.25	"	2.5	4.48	93	75-125	24.3	80	
Barium	48.8	0.25	"	5	62.2	0	75-125	58.3	80	I*
Cadmium	0.521	0.25	"	0.5	0.0997	84	75-125	0.3	80	

MS (L 89014-MS-L721430)	Source: 89014			Prepared: 12/08/2023 Analyzed: 12/28/2023						
Copper	5.33	0.25	mg/Kg	2.47	4.48	34	75-125			*
Lead	6.18	0.25	"	2.47	4.65	62	75-125			*
Silver	0.462	0.25	"	0.494	0.0174	90	75-125			
Nickel	6.15	0.25	"	2.47	5.21	38	75-125			*
Zinc	38.4	2.5	"	24.7	21.1	70	75-125			*
Barium	89	0.25	"	4.94	62.2	543	75-125			I*
Arsenic	5.01	0.25	"	2.47	3.59	58	75-125			*
Selenium	4.43	0.25	"	4.94	0.47	80	75-125			
Cadmium	0.519	0.25	"	0.494	0.0997	85	75-125			

LCS (LCS-L721430)				Prepared: 12/08/2023 Analyzed: 12/28/2023						
Nickel	2.31	0.25	mg/Kg	2.5		92	80-120			
Zinc	23.2	2.5	"	25		93	80-120			
Selenium	4.55	0.25	"	5		91	80-120			
Lead	2.42	0.25	"	2.5		97	80-120			
Copper	2.31	0.25	"	2.5		92	80-120			

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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-41-9-59

Total Metals by 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L721430 - 3050B

LCS (LCS-L721430)

Prepared: 12/08/2023 Analyzed: 12/28/2023

Barium	4.81	0.25	mg/Kg	5		96	80-120			
Arsenic	2.21	0.25	"	2.5		88	80-120			
Cadmium	0.451	0.25	"	0.5		90	80-120			
Silver	0.479	0.25	"	0.5		96	80-120			

LRB (LRB-L721430)

Prepared: 12/08/2023 Analyzed: 12/28/2023

Arsenic	ND	0.25	mg/Kg				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Zinc	ND	2.5	"				-			

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Verdad Resources
 1125 17th St Suite 550
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Dean Wagoner
 Project Number: [none]
 Project: Timbro 1-41-9-59

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 L721732 -										
DUP (L 89003-DUP)		Source: Y312150-01			Prepared: Analyzed: 12/12/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		89003		-	0	20	
MS (L 89003-MS)		Source: Y312150-01			Prepared: Analyzed: 12/12/2023					
Chromium, Hexavalent	29.5	2.5	mg/Kg	39.4	89003	75	75-125			
LCS (LCS)		Prepared: Analyzed: 12/12/2023								
Chromium, Hexavalent	7	0.5	mg/Kg	8		88	75-125			
LRB (LRB)		Prepared: Analyzed: 12/12/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Timbro 1-41-9-59

Notes and Definitions

U Sample is Non-Detect.

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

J Estimated Value. Analyte below reported quantitation limit.

I* [Undefined]

* 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.

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