

November 28, 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 03, 2023. This project is associated with Origins project number Y311121-01.

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 middle	Y311121-01	Soil	November 2, 2023 14:00	11/03/2023 12:05
Timbro 1-3-9-59 EFL middle	Y311121-02	Soil	November 2, 2023 14:10	11/03/2023 12:05

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: B11121

Client: Verdad

Client Project ID: Timbro 1-3-9-59

Checklist Completed by: EHS

Shipped Via: HO

Date/time completed: 11/3/23

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

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 19.3 °C _____ / _____ °C _____ / _____ °C (Describe)

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"/>		
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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 11/7/23

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 middle
11/2/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311121-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.452		0.0994	mg/L	1	B3K0715	11/07/2023	11/08/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3K0601	11/06/2023	11/07/2023	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

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	B3K0607	11/06/2023	11/07/2023	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			"	"	"	
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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 middle
11/2/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311121-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.1 %		70-130			B3K06 07	11/06/2023	11/07/2023	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.32	0.499	meq/L	10	[CALC]		11/06/2023	11/07/2023	
Magnesium	0.846	0.823	"	"	"	"	"	"	
Sodium	2.59	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K0632		11/06/2023	11/14/2023	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua

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 Denver CO 80202

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

Timbro 1-3-9-59 WFL middle
11/2/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311121-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3K0632	11/06/2023	11/14/2023	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	103 %		60-130			"	"	"	
Surrogate: Pyrene-d10	96.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.9 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.30			pH Units	1	B3K0625	11/06/2023	11/07/2023	
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SAR by 20B Saturated Paste

SAR	1.79		0.0100	SAR	1	B3K0617	11/06/2023	11/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.798		0.00500	mmhos/cm	1	B3K0625	11/06/2023	11/07/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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 Denver CO 80202

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

Timbro 1-3-9-59 WFL middle
11/2/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311121-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	7.75		0.0852	mg/kg	10	B3K0731	11/07/2023	11/09/2023	
Barium	371		8.52	"	"	"	"	"	
Cadmium	0.302		0.0852	"	"	"	"	"	
Copper	17.8		8.52	"	"	"	"	"	
Lead	8.56		8.52	"	"	"	"	"	
Nickel	10.2		8.52	"	"	"	"	"	
Selenium	0.293		0.0852	"	"	"	"	"	
Silver	ND		0.0852	"	"	"	"	"	
Zinc	ND		85.2	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.187	0.467	mg/kg dry	1	2523000	11/17/2023	11/17/2023	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 middle
11/2/2023 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311121-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.264		0.0970	mg/L	1	B3K0715	11/07/2023	11/08/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3K0601	11/06/2023	11/07/2023	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	76.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3K0607	11/06/2023	11/07/2023	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			"	"	"	
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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

Timbro 1-3-9-59 EFL middle
11/2/2023 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311121-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.0 %		70-130			B3K06 07	11/06/2023	11/07/2023	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.22		0.499	meq/L	10	[CALC]	11/06/2023	11/07/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.25		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3K0632	11/06/2023	11/14/2023	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 Denver CO 80202

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

Timbro 1-3-9-59 EFL middle
11/2/2023 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311121-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3K0632	11/06/2023	11/14/2023	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	110 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.8 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.4 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.31			pH Units	1	B3K0625	11/06/2023	11/07/2023	
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SAR by 20B Saturated Paste

SAR	1.92		0.0100	SAR	1	B3K0617	11/06/2023	11/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.648		0.00500	mmhos/cm	1	B3K0625	11/06/2023	11/07/2023	
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Table 915 metals by EPA 6020B

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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 EFL middle
11/2/2023 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311121-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.32	0.0927	0.0927	mg/kg	10	B3K0731	11/07/2023	11/09/2023	
Barium	369	9.27	9.27	"	"	"	"	"	
Cadmium	0.240	0.0927	0.0927	"	"	"	"	"	
Copper	13.5	9.27	9.27	"	"	"	"	"	
Lead	14.6	9.27	9.27	"	"	"	"	"	
Nickel	10.0	9.27	9.27	"	"	"	"	"	
Selenium	0.0973	0.0927	0.0927	"	"	"	"	"	
Silver	ND	0.0927	0.0927	"	"	"	"	"	
Zinc	ND	92.7	92.7	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.176	0.440	mg/kg dry	1	2523000	11/17/2023	11/17/2023	U
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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

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 B3K0601 - EPA 3550B										
Blank (B3K0601-BLK1)										
					Prepared: 11/06/2023 Analyzed: 11/07/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	24		"	24.9		97.7	50-150			

Origins Laboratory, Inc.



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 1125 17th St Suite 550
 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 B3K0601 - EPA 3550B

LCS (B3K0601-BS1)

Prepared: 11/06/2023 Analyzed: 11/07/2023

Diesel (C10-C28)	916	50.0	mg/kg	1000		91.6	70-130			
Residual Range Organics (C28-C40)	976	200	"	1000		97.6	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.3	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 B3K0601 - EPA 3550B

Matrix Spike (B3K0601-MS1)	Source: Y311082-01			Prepared: 11/06/2023 Analyzed: 11/07/2023						
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130			
Residual Range Organics (C28-C40)	1120	200	"	1000	ND	112	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	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
Batch B3K0601 - EPA 3550B										
Matrix Spike Dup (B3K0601-MSD1)					Source: Y311082-01					Prepared: 11/06/2023 Analyzed: 11/07/2023
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130	4.89	35	
Residual Range Organics (C28-C40)	1160	200	"	1000	ND	116	70-130	3.86	35	
Surrogate: o-Terphenyl	43		"	49.8		86.6	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 B3K0607 - EPA 5030 (soil)

Blank (B3K0607-BLK1)

Prepared: 11/06/2023 Analyzed: 11/07/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	101		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.2		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	104		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 B3K0607 - EPA 5030 (soil)

LCS (B3K0607-BS1)

Prepared: 11/06/2023 Analyzed: 11/07/2023

1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100		100	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.0914	0.00200	"	0.100		91.4	70-130			
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Naphthalene	0.0936	0.00380	"	0.100		93.6	70-130			
Toluene	0.0925	0.00200	"	0.100		92.5	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.224	0.00400	"	0.200		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	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 B3K0607 - EPA 5030 (soil)

Matrix Spike (B3K0607-MS1)	Source: Y311121-01			Prepared: 11/06/2023 Analyzed: 11/07/2023						
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Benzene	0.0966	0.00200	"	0.100	ND	96.6	70-130			
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Naphthalene	0.102	0.00380	"	0.100	ND	102	70-130			
Toluene	0.0930	0.00200	"	0.100	ND	93.0	70-130			
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130			
m,p-Xylene	0.219	0.00400	"	0.200	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	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
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Batch B3K0607 - EPA 5030 (soil)

Matrix Spike Dup (B3K0607-MSD1)	Source: Y311121-01			Prepared: 11/06/2023 Analyzed: 11/07/2023						
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130	1.21	20	
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	1.64	20	
Benzene	0.0960	0.00200	"	0.100	ND	96.0	70-130	0.644	20	
Ethylbenzene	0.115	0.00200	"	0.100	ND	115	70-130	5.05	20	
Naphthalene	0.105	0.00380	"	0.100	ND	105	70-130	3.39	20	
Toluene	0.0946	0.00200	"	0.100	ND	94.6	70-130	1.71	20	
o-Xylene	0.110	0.00200	"	0.100	ND	110	70-130	0.875	20	
m,p-Xylene	0.228	0.00400	"	0.200	ND	114	70-130	3.66	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	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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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 B3K0731 - EPA 3050B

Blank (B3K0731-BLK1)

Prepared: 11/07/2023 Analyzed: 11/09/2023

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 (B3K0731-BS1)

Prepared: 11/07/2023 Analyzed: 11/09/2023

Arsenic	0.0470	0.000100	mg/kg	0.0500		94.0	80-120			
Barium	5.01	0.0100	"	5.00		100	80-120			
Cadmium	0.0513	0.000100	"	0.0500		103	80-120			
Copper	0.472	0.0100	"	0.500		94.3	80-120			
Lead	0.0492	0.0100	"	0.0500		98.5	80-120			
Nickel	0.0470	0.0100	"	0.0500		94.1	80-120			
Selenium	0.0517	0.000100	"	0.0500		103	80-120			
Silver	0.0475	0.000100	"	0.0500		95.0	80-120			
Zinc	0.431	0.100	"	0.500		86.2	80-120			

Matrix Spike (B3K0731-MS1)

Source: Y311089-01

Prepared: 11/07/2023 Analyzed: 11/09/2023

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

Metals by EPA 6000/7000 Series Methods - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K0731 - EPA 3050B

Matrix Spike (B3K0731-MS1)		Source: Y311089-01			Prepared: 11/07/2023 Analyzed: 11/09/2023					
Arsenic	7.83	0.0872	mg/kg	4.36	2.59	120	75-125			
Barium	614	8.72	"	436	153	106	75-125			
Cadmium	5.09	0.0872	"	4.36	0.0892	115	75-125			
Copper	54.7	8.72	"	43.6	5.79	112	75-125			
Lead	10.7	8.72	"	4.36	5.82	112	75-125			
Nickel	10.8	8.72	"	4.36	5.08	130	75-125			QM-07
Selenium	4.98	0.0872	"	4.36	0.0735	113	75-125			
Silver	4.58	0.0872	"	4.36	0.00588	105	75-125			
Zinc	69.8	87.2	"	43.6	21.6	111	75-125			
Matrix Spike Dup (B3K0731-MSD1)		Source: Y311089-01			Prepared: 11/07/2023 Analyzed: 11/09/2023					
Arsenic	8.31	0.0876	mg/kg	4.38	2.59	131	75-125	5.87	20	QM-07
Barium	582	8.76	"	438	153	97.8	75-125	5.44	20	
Cadmium	4.75	0.0876	"	4.38	0.0892	106	75-125	6.94	20	
Copper	52.1	8.76	"	43.8	5.79	106	75-125	4.83	20	
Lead	11.7	8.76	"	4.38	5.82	135	75-125	8.98	20	QM-07
Nickel	10.5	8.76	"	4.38	5.08	124	75-125	2.21	20	
Selenium	4.35	0.0876	"	4.38	0.0735	97.7	75-125	13.5	20	
Silver	4.28	0.0876	"	4.38	0.00588	97.6	75-125	6.76	20	
Zinc	68.0	87.6	"	43.8	21.6	106	75-125	2.69	20	

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 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 B3K0632 - EPA 3580

Blank (B3K0632-BLK1)

Prepared: 11/06/2023 Analyzed: 11/14/2023

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	190		ug/kg	200		95.4	60-130			
Surrogate: Anthracene-d10	200		"	200		99.7	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.1	60-130			

LCS (B3K0632-BS1)

Prepared: 11/06/2023 Analyzed: 11/14/2023

1-Methylnaphthalene	0.214	0.002	mg/kg	0.200		107	70-130			
2-Methylnaphthalene	0.212	0.002	"	0.200		106	70-130			
Acenaphthene	0.211	0.020	"	0.200		106	70-130			
Anthracene	0.202	0.020	"	0.200		101	70-130			

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 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 B3K0632 - EPA 3580

LCS (B3K0632-BS1)

Prepared: 11/06/2023 Analyzed: 11/14/2023

Benzo (a) anthracene	0.186	0.005	mg/kg	0.200		93.2	70-130			
Benzo (a) pyrene	0.219	0.020	"	0.200		109	70-130			
Benzo (b) fluoranthene	0.177	0.020	"	0.200		88.5	70-130			
Benzo (g,h,i) perylene	0.218	0.020	"	0.200		109	70-130			
Benzo (k) fluoranthene	0.230	0.020	"	0.200		115	70-130			
Chrysene	0.211	0.020	"	0.200		106	70-130			
Dibenz (a,h) anthracene	0.210	0.020	"	0.200		105	70-130			
Fluoranthene	0.229	0.020	"	0.200		114	70-130			
Fluorene	0.216	0.020	"	0.200		108	70-130			
Indeno (1,2,3-cd) pyrene	0.222	0.020	"	0.200		111	70-130			
Naphthalene	0.217	0.002	"	0.200		109	70-130			
Phenanthrene	0.204	0.020	"	0.200		102	70-130			
Pyrene	0.193	0.020	"	0.200		96.3	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	180		"	200		87.8	60-130			
Surrogate: Pyrene-d10	190		"	200		95.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.5	60-130			

Matrix Spike (B3K0632-MS1)

Source: Y311120-01

Prepared: 11/06/2023 Analyzed: 11/14/2023

1-Methylnaphthalene	0.281	0.002	mg/kg	0.200	0.124	78.4	70-130			
2-Methylnaphthalene	0.322	0.002	"	0.200	0.196	63.4	70-130			QM-07
Acenaphthene	0.207	0.020	"	0.200	0.002	102	70-130			
Anthracene	0.170	0.020	"	0.200	0.0004	85.0	70-130			
Benzo (a) anthracene	0.175	0.005	"	0.200	0.0004	87.2	70-130			
Benzo (a) pyrene	0.202	0.020	"	0.200	ND	101	70-130			
Benzo (b) fluoranthene	0.171	0.020	"	0.200	ND	85.3	70-130			
Benzo (g,h,i) perylene	0.211	0.020	"	0.200	ND	106	70-130			

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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 B3K0632 - EPA 3580

Matrix Spike (B3K0632-MS1)	Source: Y311120-01			Prepared: 11/06/2023 Analyzed: 11/14/2023						
Benzo (k) fluoranthene	0.221	0.020	mg/kg	0.200	ND	110	70-130			
Chrysene	0.194	0.020	"	0.200	ND	97.0	70-130			
Dibenz (a,h) anthracene	0.211	0.020	"	0.200	ND	105	70-130			
Fluoranthene	0.215	0.020	"	0.200	ND	107	70-130			
Fluorene	0.213	0.020	"	0.200	0.002	105	70-130			
Indeno (1,2,3-cd) pyrene	0.219	0.020	"	0.200	ND	109	70-130			
Naphthalene	0.279	0.002	"	0.200	0.122	78.6	70-130			
Phenanthrene	0.192	0.020	"	0.200	ND	95.8	70-130			
Pyrene	0.196	0.020	"	0.200	ND	97.8	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		97.3	60-130			
Surrogate: Pyrene-d10	190		"	200		96.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.9	60-130			

Matrix Spike Dup (B3K0632-MSD1)	Source: Y311120-01			Prepared: 11/06/2023 Analyzed: 11/14/2023						
1-Methylnaphthalene	0.310	0.002	mg/kg	0.200	0.124	93.0	70-130	9.85	20	
2-Methylnaphthalene	0.367	0.002	"	0.200	0.196	85.5	70-130	12.8	20	
Acenaphthene	0.209	0.020	"	0.200	0.002	103	70-130	1.07	20	
Anthracene	0.194	0.020	"	0.200	0.0004	96.6	70-130	12.7	20	
Benzo (a) anthracene	0.208	0.005	"	0.200	0.0004	104	70-130	17.5	20	
Benzo (a) pyrene	0.206	0.020	"	0.200	ND	103	70-130	1.93	20	
Benzo (b) fluoranthene	0.166	0.020	"	0.200	ND	83.2	70-130	2.50	20	
Benzo (g,h,i) perylene	0.221	0.020	"	0.200	ND	110	70-130	4.37	20	
Benzo (k) fluoranthene	0.219	0.020	"	0.200	ND	109	70-130	0.914	20	
Chrysene	0.206	0.020	"	0.200	ND	103	70-130	5.88	20	
Dibenz (a,h) anthracene	0.208	0.020	"	0.200	ND	104	70-130	1.49	20	
Fluoranthene	0.216	0.020	"	0.200	ND	108	70-130	0.565	20	

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 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 B3K0632 - EPA 3580

Matrix Spike Dup (B3K0632-MSD1)	Source: Y311120-01			Prepared: 11/06/2023 Analyzed: 11/14/2023						
Fluorene	0.216	0.020	mg/kg	0.200	0.002	107	70-130	1.70	20	
Indeno (1,2,3-cd) pyrene	0.209	0.020	"	0.200	ND	105	70-130	4.33	20	
Naphthalene	0.303	0.002	"	0.200	0.122	90.2	70-130	8.00	20	
Phenanthrene	0.204	0.020	"	0.200	ND	102	70-130	6.22	20	
Pyrene	0.190	0.020	"	0.200	ND	94.9	70-130	2.97	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		97.1	60-130			
Surrogate: Pyrene-d10	190		"	200		93.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.1	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 B3K0617 - Saturated Paste Metals

Blank (B3K0617-BLK1)

Prepared: 11/06/2023 Analyzed: 11/07/2023

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 (B3K0617-DUP1)

Source: Y311088-04

Prepared: 11/06/2023 Analyzed: 11/07/2023

SAR	ND	0.0100	SAR		ND				200	
Calcium PPM	ND	10.0	mg/L		ND				50	
Magnesium PPM	ND	10.0	"		ND				50	
Sodium PPM	2.47	10.0	"		ND				50	

Batch B3K0715 - DTPA Sorbitol Preparation

Blank (B3K0715-BLK1)

Prepared: 11/07/2023 Analyzed: 11/08/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3K0715-DUP1)

Source: Y311089-01

Prepared: 11/07/2023 Analyzed: 11/08/2023

Boron	0.405	0.102	mg/L		0.464			13.7	50	
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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 B3K0625 - Saturated Paste pH/EC										
Blank (B3K0625-BLK1)					Prepared: 11/06/2023 Analyzed: 11/07/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3K0625-DUP1)					Source: Y311088-04 Prepared: 11/06/2023 Analyzed: 11/07/2023					
pH	8.81		pH Units		8.88			0.791	25	
Specific Conductance (EC)	0.974	0.00500	mmhos/cm		0.867			11.6	25	

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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
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2523000 - SW846 3060A										
BLANK (1205571006-BLK)					Prepared: 11/17/2023 Analyzed: 11/17/2023					
Hexavalent Chromium	ND	0.273	mg/kg				-			U
LCS (1205571007-BKS)					Prepared: 11/17/2023 Analyzed: 11/17/2023					
Hexavalent Chromium	2.44	0.243	mg/kg	2.43		100	80-120			
DUP (1205571008 D)					Source: 644282001 Prepared: 11/17/2023 Analyzed: 11/17/2023					
Hexavalent Chromium	ND	0.401	mg/kg dry		<0.160		0-50	N/A	50	U
MS (1205571009 S)					Source: 644282001 Prepared: 11/17/2023 Analyzed: 11/17/2023					
Hexavalent Chromium	1.01	0.288	mg/kg dry	2.88	<0.115	30.3	75-125			
DUP (1205571010 D)					Source: 644287003 Prepared: 11/17/2023 Analyzed: 11/17/2023					
Hexavalent Chromium	ND	0.317	mg/kg dry		<0.127		0-50	N/A	50	U
MS (1205571011 S)					Source: 644287003 Prepared: 11/17/2023 Analyzed: 11/17/2023					
Hexavalent Chromium	3.44	0.389	mg/kg dry	3.89	<0.155	87.4	75-125			
ILCS (1205571012-ILCS)					Prepared: 11/17/2023 Analyzed: 11/17/2023					
Hexavalent Chromium	7.04	0.352	mg/kg	7.53		93.5	80-120			

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Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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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