

April 13, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - WES - Bertha Pyles #2 & #3 TB**

**Project Number - 9C2099005**

Attached are your analytical results for WES - Bertha Pyles #2 & #3 TB received by Origins Laboratory, Inc. March 31, 2023. This project is associated with Origins project number Y303852-01.

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



Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@0.5'	Y303852-01	Soil	March 31, 2023 10:00	03/31/2023 16:05
SS02@0.5'	Y303852-02	Soil	March 31, 2023 10:05	03/31/2023 16:05
SS03@0.5'	Y303852-03	Soil	March 31, 2023 10:10	03/31/2023 16:05
SS04@0.5'	Y303852-04	Soil	March 31, 2023 10:15	03/31/2023 16:05
SS05@0.5'	Y303852-05	Soil	March 31, 2023 10:20	03/31/2023 16:05
BG01@0.5'	Y303852-06	Soil	March 31, 2023 10:25	03/31/2023 16:05
BG02@0.5'	Y303852-07	Soil	March 31, 2023 10:30	03/31/2023 16:05
BG03@0.5'	Y303852-08	Soil	March 31, 2023 10:35	03/31/2023 16:05
PAD BG01@0.5'	Y303852-09	Soil	March 31, 2023 10:40	03/31/2023 16:05

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.*

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 9C2099005

Project: WES - Bertha Pyles #2 & #3 TB

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

INITIAL ☐ IMPACTED ☐ **Y33852** page 1 of 1

www.originslaboratory.com

**ORIGINS** LABORATORY, INC

Client: Ensolum LLC  
Address:  
Telephone Number:  
Email Address:

Project Manager: Jeremy Espinoza  
Project Name: Bertha Pyles #2 & #3 TB  
Project Number: 9C2099005  
Samples Collected By: Glenn Thompson

Bill to Steve James at Western Operating Company

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Soil	Full Table 915-1	BTEXN	1,2,4,1,3,5-TMB	THH-GRO/DBO/COD	EC/pH/SA/Boron (SP)	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other							
SS01+0.5'	3/31/23	1000	2	X				X						1
SS02+0.5'		1005	2											2
SS03+0.5'		1010	2											3
SS04+0.5'		1015	2											4
SS05+0.5'		1020	2											5
B601+0.5'		1025	2											6
B602+0.5'		1030	2											7
B603+0.5'		1035	2											8
PA0 B601+0.5'		1040	1											9
														10

Relinquished By: Date: 3/31/23 Time: 1605  
Relinquished By: Date: 3/31/23 Time: 1605

Received By: EHS Date: 3/31/23 Time: 1605  
Received By: Date: 3/31/23 Time: 1605

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

Date Results Needed: 4/7

Origins Laboratory, Inc.

*Bynon*

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: ✓303852

Client: Ensolum LLC

Checklist Completed by: JG/ENS

Client Project ID: Bertha Pyles

Date/time completed: 3/31/23

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

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_

Airbill #: N/A

Cooler Number/Temperature: 1, 4.2 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: TOU4

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

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

Reviewed by: JG (Project Manager)

Date/Time Reviewed: 4-3-23

Origins Laboratory, Inc.

*J. Bynon*

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

SS01@0.5'

3/31/2023 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y303852-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.782	0.0980	mg/L	1	B3D0506	04/05/2023	04/06/2023
-------	-------	--------	------	---	---------	------------	------------

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	216	25.0	mg/kg	1	B3D0303	04/03/2023	04/04/2023
Residual Range Organics (C28-C40)	379	100	"	"	"	"	"

Surrogate: o-Terphenyl	89.7 %	50-150	"	"	"
------------------------	--------	--------	---	---	---

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3147	03/31/2023	04/04/2023	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	114 %	70-130	"	"	"
Surrogate: Toluene-d8	95.6 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

SS01@0.5'

3/31/2023 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y303852-01 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	92.6 %	70-130	B3C31 47	03/31/2023	04/04/2023
---------------------------------	--------	--------	-------------	------------	------------

## Metals by Saturated Paste by EPA 6010

Calcium	7.77	0.499	meq/L	10	[CALC]	04/04/2023	04/05/2023
Magnesium	1.36	0.823	"	"	"	"	"
Sodium	12.0	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0109	0.0201	mg/Kg	10	L674189	04/05/2023	04/06/2023
2-Methylnaphthalene	ND	0.0194	0.0201	"	"	"	"	"
Acenaphthene	0.00906	0.00304	0.0067	"	"	"	"	"
Anthracene	0.00544	0.00334	0.0067	"	"	"	"	J
Benzo(a)anthracene	0.0125	0.00493	0.0067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"
Benzo(b)fluoranthene	0.00854	0.00585	0.0067	"	"	"	"	"
Benzo(k)fluoranthene	0.00791	0.00437	0.0067	"	"	"	"	"
Chrysene	0.0361	0.00624	0.0067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"
Fluoranthene	0.0297	0.00394	0.0067	"	"	"	"	"
Fluorene	0.0188	0.00286	0.0067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.00628	0.00627	0.0067	"	"	"	"	J

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

SS01@0.5'

3/31/2023 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, LLC.  
Y303852-01 (Soil)

## PAH by 8270D SIM

Naphthalene	ND	0.0145	0.0201	mg/Kg	10	L674189	04/05/2023	04/06/2023
Pyrene	0.0268	0.00643	0.0067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	45.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47.3 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.04	pH Units	1	B3D0423	04/04/2023	04/05/2023
----	------	----------	---	---------	------------	------------

## SAR by 20B Saturated Paste

SAR	5.59	SAR	1	B3D0413	04/04/2023	04/05/2023
-----	------	-----	---	---------	------------	------------

## Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.21	0.00500	mmhos/cm	1	B3D0423	04/04/2023	04/05/2023
---------------------------	------	---------	----------	---	---------	------------	------------

## Table 915 metals by EPA 6020B

Arsenic	4.74	0.0976	mg/kg	10	B3C3131	03/31/2023	04/04/2023
Barium	145	9.76	"	"	"	"	"
Cadmium	0.216	0.0976	"	"	"	"	"

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

SS01@0.5'

3/31/2023 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y303852-01 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.76	mg/kg	10	B3C3131	03/31/2023	04/04/2023
Lead	ND		9.76	"	"	"	"	"
Nickel	ND		9.76	"	"	"	"	"
Selenium	0.275		0.0976	"	"	"	"	"
Silver	ND		0.0976	"	"	"	"	"
Zinc	ND		97.6	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L674312	03/31/2023	04/05/2023
----------------------	----	------	-----	-------	---	---------	------------	------------

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.*



Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

SS02@0.5'

3/31/2023 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y303852-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.75	0.100	mg/L	1	B3D0506	04/05/2023	04/06/2023
-------	------	-------	------	---	---------	------------	------------

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	2390	25.0	mg/kg	1	B3D0303	04/03/2023	04/04/2023
Residual Range Organics (C28-C40)	2760	100	"	"	"	"	"

Surrogate: o-Terphenyl	323 %	50-150	"	"	"	"	S-04
------------------------	-------	--------	---	---	---	---	------

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.00522	0.00200	mg/kg	1	B3C3147	03/31/2023	04/04/2023
1,3,5-Trimethylbenzene	0.00406	0.00200	"	"	"	"	"
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	125 %	70-130	"	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

SS02@0.5'

3/31/2023 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y303852-02 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	111 %	70-130	B3C31 47	03/31/2023	04/04/2023
---------------------------------	-------	--------	-------------	------------	------------

## Metals by Saturated Paste by EPA 6010

Calcium	12.2	0.499	meq/L	10	[CALC]	04/04/2023	04/05/2023
Magnesium	2.76	0.823	"	"	"	"	"
Sodium	47.8	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.171	0.0218	0.0402	mg/Kg	20	L674189	04/05/2023	04/06/2023
2-Methylnaphthalene	0.194	0.0387	0.0402	"	"	"	"	"
Acenaphthene	0.0664	0.00608	0.0134	"	"	"	"	"
Anthracene	0.0157	0.00668	0.0134	"	"	"	"	"
Benzo(a)anthracene	0.0346	0.00986	0.0134	"	"	"	"	"
Benzo(a)pyrene	ND	0.00936	0.0134	"	"	"	"	"
Benzo(b)fluoranthene	0.0321	0.0117	0.0134	"	"	"	"	"
Benzo(k)fluoranthene	0.0177	0.00874	0.0134	"	"	"	"	"
Chrysene	0.311	0.0125	0.0134	"	"	"	"	"
Dibenz(a,h)anthracene	0.0163	0.0123	0.0134	"	"	"	"	"
Fluoranthene	ND	0.00788	0.0134	"	"	"	"	"
Fluorene	0.105	0.00572	0.0134	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.0125	0.0134	"	"	"	"	"

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

SS02@0.5'

3/31/2023 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, LLC.  
Y303852-02 (Soil)

## PAH by 8270D SIM

Naphthalene	ND	0.029	0.0402	mg/Kg	20	L674189	04/05/2023	04/06/2023
Pyrene	0.0889	0.0129	0.0134	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	51.7 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	40.2 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	47.4 %		29-110			"	"	"

## pH in Soil by 9045D

pH	8.15			pH Units	1	B3D0423	04/04/2023	04/05/2023
----	------	--	--	----------	---	---------	------------	------------

## SAR by 20B Saturated Paste

SAR	17.5			SAR	1	B3D0413	04/04/2023	04/05/2023
-----	------	--	--	-----	---	---------	------------	------------

## Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.57		0.00500	mmhos/cm	1	B3D0423	04/04/2023	04/05/2023
---------------------------	------	--	---------	----------	---	---------	------------	------------

## Table 915 metals by EPA 6020B

Arsenic	4.65		0.0958	mg/kg	10	B3C3131	03/31/2023	04/04/2023
Barium	182		9.58	"	"	"	"	"
Cadmium	0.246		0.0958	"	"	"	"	"

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

SS02@0.5'

3/31/2023 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y303852-02 (Soil)

## Table 915 metals by EPA 6020B

Copper	10.6		9.58	mg/kg	10	B3C3131	03/31/2023	04/04/2023
Lead	9.75		9.58	"	"	"	"	"
Nickel	11.1		9.58	"	"	"	"	"
Selenium	0.258		0.0958	"	"	"	"	"
Silver	ND		0.0958	"	"	"	"	"
Zinc	ND		95.8	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L674312	03/31/2023	04/05/2023
----------------------	----	------	-----	-------	---	---------	------------	------------

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

SS03@0.5'

3/31/2023 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y303852-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.13	0.102	mg/L	1	B3D0506	04/05/2023	04/06/2023
-------	------	-------	------	---	---------	------------	------------

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	2750	25.0	mg/kg	1	B3D0303	04/03/2023	04/04/2023
Residual Range Organics (C28-C40)	2000	100	"	"	"	"	"

Surrogate: o-Terphenyl	414 %	50-150	"	"	"	"	S-04
------------------------	-------	--------	---	---	---	---	------

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.00354	0.00200	mg/kg	1	B3C3147	03/31/2023	04/04/2023
1,3,5-Trimethylbenzene	0.00930	0.00200	"	"	"	"	"
Benzene	ND	0.00200	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	U
Gasoline Range Hydrocarbons	0.700	0.200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130	"	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

SS03@0.5'

3/31/2023 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y303852-03 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	102 %	70-130	B3C31 47	03/31/2023	04/04/2023
---------------------------------	-------	--------	-------------	------------	------------

## Metals by Saturated Paste by EPA 6010

Calcium	2.66	0.499	meq/L	10	[CALC]	04/04/2023	04/05/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	24.5	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.668	0.0109	0.0201	mg/Kg	10	L674189	04/05/2023	04/06/2023
2-Methylnaphthalene	0.311	0.0194	0.0201	"	"	"	"	"
Acenaphthene	0.171	0.00304	0.0067	"	"	"	"	"
Anthracene	0.0241	0.00334	0.0067	"	"	"	"	"
Benzo(a)anthracene	0.0637	0.00493	0.0067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"
Benzo(b)fluoranthene	0.0229	0.00585	0.0067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"
Chrysene	0.255	0.00624	0.0067	"	"	"	"	"
Dibenz(a,h)anthracene	0.0115	0.00614	0.0067	"	"	"	"	"
Fluoranthene	0.0132	0.00394	0.0067	"	"	"	"	"
Fluorene	0.336	0.00286	0.0067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	"	"	"	"	"

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.



Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

SS03@0.5'

3/31/2023 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, LLC.  
Y303852-03 (Soil)

## PAH by 8270D SIM

Naphthalene	0.0351	0.0145	0.0201	mg/Kg	10	L674189	04/05/2023	04/06/2023
Pyrene	0.0856	0.00643	0.0067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	46.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	35.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	49.4 %	29-110	"	"	"

## pH in Soil by 9045D

pH	7.81	pH Units	1	B3D0423	04/04/2023	04/05/2023
----	------	----------	---	---------	------------	------------

## SAR by 20B Saturated Paste

SAR	19.4	SAR	1	B3D0413	04/04/2023	04/05/2023
-----	------	-----	---	---------	------------	------------

## Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.97	0.00500	mmhos/cm	1	B3D0423	04/04/2023	04/05/2023
---------------------------	------	---------	----------	---	---------	------------	------------

## Table 915 metals by EPA 6020B

Arsenic	4.02	0.0871	mg/kg	10	B3C3131	03/31/2023	04/04/2023
Barium	116	8.71	"	"	"	"	"
Cadmium	0.145	0.0871	"	"	"	"	"

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

SS03@0.5'

3/31/2023 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y303852-03 (Soil)

## Table 915 metals by EPA 6020B

Copper	ND	8.71	mg/kg	10	B3C3131	03/31/2023	04/04/2023
Lead	ND	8.71	"	"	"	"	"
Nickel	ND	8.71	"	"	"	"	"
Selenium	0.176	0.0871	"	"	"	"	"
Silver	ND	0.0871	"	"	"	"	"
Zinc	ND	87.1	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L674312	03/31/2023	04/05/2023
----------------------	----	-------	---	-------	---	---------	------------	------------

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

SS04@0.5'

3/31/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y303852-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.530	0.101	mg/L	1	B3D0506	04/05/2023	04/06/2023
-------	-------	-------	------	---	---------	------------	------------

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	496	25.0	mg/kg	1	B3D0303	04/03/2023	04/04/2023
Residual Range Organics (C28-C40)	657	100	"	"	"	"	"

Surrogate: o-Terphenyl	95.9 %	50-150	"	"	"
------------------------	--------	--------	---	---	---

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3147	03/31/2023	04/04/2023	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	118 %	70-130	"	"	"
Surrogate: Toluene-d8	97.2 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

SS04@0.5'

3/31/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y303852-04 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	91.3 %	70-130	B3C31 47	03/31/2023	04/04/2023
---------------------------------	--------	--------	-------------	------------	------------

## Metals by Saturated Paste by EPA 6010

Calcium	42.3	0.499	meq/L	10	[CALC]	04/04/2023	04/05/2023
Magnesium	8.39	0.823	"	"	"	"	"
Sodium	41.1	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.0207	0.00549	0.0101	mg/Kg	5	L674189	04/05/2023	04/06/2023
2-Methylnaphthalene	0.0153	0.00972	0.0101	"	"	"	"	"
Acenaphthene	0.00952	0.00152	0.00335	"	"	"	"	"
Anthracene	0.00194	0.00167	0.00335	"	"	"	"	J
Benzo(a)anthracene	0.013	0.00247	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"
Chrysene	0.00991	0.00312	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"
Fluoranthene	0.00227	0.00197	0.00335	"	"	"	"	J
Fluorene	0.0228	0.00143	0.00335	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

SS04@0.5'

3/31/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, LLC.  
Y303852-04 (Soil)

## PAH by 8270D SIM

Naphthalene	ND	0.0073	0.0101	mg/Kg	5	L674189	04/05/2023	04/06/2023
Pyrene	0.00663	0.00322	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	60.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	56.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	54.3 %	29-110	"	"	"

## pH in Soil by 9045D

pH	7.46	pH Units	1	B3D0423	04/04/2023	04/05/2023
----	------	----------	---	---------	------------	------------

## SAR by 20B Saturated Paste

SAR	8.16	SAR	1	B3D0413	04/04/2023	04/05/2023
-----	------	-----	---	---------	------------	------------

## Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.58	0.00500	mmhos/cm	1	B3D0423	04/04/2023	04/05/2023
---------------------------	------	---------	----------	---	---------	------------	------------

## Table 915 metals by EPA 6020B

Arsenic	4.12	0.0948	mg/kg	10	B3C3131	03/31/2023	04/04/2023
Barium	125	9.48	"	"	"	"	"
Cadmium	0.160	0.0948	"	"	"	"	"

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

SS04@0.5'

3/31/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y303852-04 (Soil)

## Table 915 metals by EPA 6020B

Copper	ND	9.48	mg/kg	10	B3C3131	03/31/2023	04/04/2023
Lead	ND	9.48	"	"	"	"	"
Nickel	ND	9.48	"	"	"	"	"
Selenium	0.213	0.0948	"	"	"	"	"
Silver	ND	0.0948	"	"	"	"	"
Zinc	ND	94.8	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.51	mg/Kg	1	L674313	03/31/2023	04/05/2023
----------------------	----	------	------	-------	---	---------	------------	------------

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.



Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

SS05@0.5'

3/31/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y303852-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.39	0.102	mg/L	1	B3D0506	04/05/2023	04/06/2023
-------	------	-------	------	---	---------	------------	------------

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	5200	250	mg/kg	10	B3D0303	04/03/2023	04/04/2023
Residual Range Organics (C28-C40)	2970	100	"	1	"	"	04/04/2023

Surrogate: o-Terphenyl	631 %	50-150	"	"	"	"	S-04
------------------------	-------	--------	---	---	---	---	------

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.0963	0.00200	mg/kg	1	B3C3147	03/31/2023	04/04/2023
1,3,5-Trimethylbenzene	0.151	0.00200	"	"	"	"	"
Benzene	ND	0.00200	"	"	"	"	" U
Ethylbenzene	0.0140	0.00200	"	"	"	"	"
Toluene	0.00308	0.00200	"	"	"	"	"
Xylenes, total	0.246	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	13.6	0.200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	"	"	"
Surrogate: Toluene-d8	106 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	121 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

SS05@0.5'

3/31/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y303852-05 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	52.2	0.499	meq/L	10	[CALC]	04/04/2023	04/05/2023
Magnesium	12.7	0.823	"	"	"	"	"
Sodium	67.8	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	1.97	0.0549	0.101	mg/Kg	50	L674189	04/05/2023	04/06/2023
2-Methylnaphthalene	2.4	0.0972	0.101	"	"	"	"	"
Acenaphthene	0.259	0.0152	0.0335	"	"	"	"	"
Anthracene	0.0666	0.0167	0.0335	"	"	"	"	"
Benzo(a)anthracene	0.0668	0.0247	0.0335	"	"	"	"	"
Benzo(a)pyrene	ND	0.0234	0.0335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.0293	0.0335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.0219	0.0335	"	"	"	"	"
Chrysene	0.373	0.0312	0.0335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.0307	0.0335	"	"	"	"	"
Fluoranthene	0.0353	0.0197	0.0335	"	"	"	"	"
Fluorene	0.583	0.0143	0.0335	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.0314	0.0335	"	"	"	"	"
Naphthalene	0.628	0.073	0.101	"	"	"	"	"
Pyrene	0.134	0.0322	0.0335	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	57.4 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	38 %		33-122			"	"	"

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

SS05@0.5'

3/31/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, LLC.  
Y303852-05 (Soil)

## PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	56.8 %	29-110	L6741 89	04/05/2023	04/06/2023
----------------------------	--------	--------	-------------	------------	------------

## pH in Soil by 9045D

pH	7.03	pH Units	1	B3D0423	04/04/2023	04/05/2023
----	------	----------	---	---------	------------	------------

## SAR by 20B Saturated Paste

SAR	11.9	SAR	1	B3D0413	04/04/2023	04/05/2023
-----	------	-----	---	---------	------------	------------

## Specific Conductance Mod. 9050A

Specific Conductance (EC)	9.98	0.00500	mmhos/cm	1	B3D0423	04/04/2023	04/05/2023
---------------------------	------	---------	----------	---	---------	------------	------------

## Table 915 metals by EPA 6020B

Arsenic	4.43	0.0871	mg/kg	10	B3C3131	03/31/2023	04/04/2023
Barium	178	8.71	"	"	"	"	"
Cadmium	0.219	0.0871	"	"	"	"	"
Copper	10.3	8.71	"	"	"	"	"
Lead	11.3	8.71	"	"	"	"	"
Nickel	10.4	8.71	"	"	"	"	"
Selenium	0.282	0.0871	"	"	"	"	"
Silver	ND	0.0871	"	"	"	"	"
Zinc	ND	87.1	"	"	"	"	"

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.

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 9C2099005

Project: WES - Bertha Pyles #2 & #3 TB

SS05@0.5'

3/31/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	------------------------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.

Y303852-05 (Soil)

**Total Metals by 7196A**

Chromium, Hexavalent	ND	2.44	5	mg/Kg	1	L674313	03/31/2023	04/05/2023
----------------------	----	------	---	-------	---	---------	------------	------------

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.*

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

BG01@0.5'

3/31/2023 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y303852-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.497	0.0996	mg/L	1	B3D0506	04/05/2023	04/06/2023	
-------	-------	--------	------	---	---------	------------	------------	--

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D0303	04/03/2023	04/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	94.7 %	50-150	"	"	"	"	"
------------------------	--------	--------	---	---	---	---	---

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3147	03/31/2023	04/04/2023	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	110 %	70-130	"	"	"	"	"
----------------------------------	-------	--------	---	---	---	---	---

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

BG01@0.5'

3/31/2023 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y303852-06 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %		70-130			B3C31 47	03/31/2023	04/04/2023	
Surrogate: 4-Bromofluorobenzene	91.4 %		70-130			"	"	"	

## Metals by Saturated Paste by EPA 6010

Calcium	2.70		0.499	meq/L	10	[CALC]	04/04/2023	04/05/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L674189	04/05/2023	04/06/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00171	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000619	0.000394	0.00067	"	"	"	"	"	J

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.



Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

BG01@0.5'

3/31/2023 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, LLC.  
Y303852-06 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L674189	04/05/2023	04/06/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	49.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	50.3 %	29-110	"	"	"

## pH in Soil by 9045D

pH	7.90	pH Units	1	B3D0423	04/04/2023	04/05/2023
----	------	----------	---	---------	------------	------------

## SAR by 20B Saturated Paste

SAR	0.185	SAR	1	B3D0413	04/04/2023	04/05/2023
-----	-------	-----	---	---------	------------	------------

## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.470	0.00500	mmhos/cm	1	B3D0423	04/04/2023	04/05/2023
---------------------------	-------	---------	----------	---	---------	------------	------------

## Table 915 metals by EPA 6020B

Arsenic	3.95	0.0930	mg/kg	10	B3C3131	03/31/2023	04/04/2023
---------	------	--------	-------	----	---------	------------	------------

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

BG01@0.5'

3/31/2023 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y303852-06 (Soil)

## Table 915 metals by EPA 6020B

Barium	88.5	9.30	mg/kg	10	B3C3131	03/31/2023	04/04/2023
Cadmium	0.153	0.0930	"	"	"	"	"
Copper	ND	9.30	"	"	"	"	"
Lead	9.36	9.30	"	"	"	"	"
Nickel	ND	9.30	"	"	"	"	"
Selenium	0.315	0.0930	"	"	"	"	"
Silver	ND	0.0930	"	"	"	"	"
Zinc	ND	93.0	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	2.47	5.06	mg/Kg	1	L674313	03/31/2023	04/05/2023
----------------------	----	------	------	-------	---	---------	------------	------------

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

BG02@0.5'

3/31/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y303852-07 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.329	0.0993	mg/L	1	B3D0506	04/05/2023	04/06/2023	
-------	-------	--------	------	---	---------	------------	------------	--

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D0303	04/03/2023	04/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	107 %	50-150	"	"	"
------------------------	-------	--------	---	---	---

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3147	03/31/2023	04/04/2023	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	0.00220	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	98.5 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

BG02@0.5'

3/31/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y303852-07 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	91.6 %	70-130	B3C31 47	03/31/2023	04/04/2023
---------------------------------	--------	--------	-------------	------------	------------

## Metals by Saturated Paste by EPA 6010

Calcium	2.71	0.499	meq/L	10	[CALC]	04/04/2023	04/05/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L674189	04/05/2023	04/06/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.0013	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

BG02@0.5'

3/31/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, LLC.  
Y303852-07 (Soil)

## PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L674189	04/05/2023	04/06/2023
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	59.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	53 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	51.8 %	29-110	"	"	"

## pH in Soil by 9045D

pH	7.84	pH Units	1	B3D0423	04/04/2023	04/05/2023
----	------	----------	---	---------	------------	------------

## SAR by 20B Saturated Paste

SAR	0.184	SAR	1	B3D0413	04/04/2023	04/05/2023
-----	-------	-----	---	---------	------------	------------

## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.440	0.00500	mmhos/cm	1	B3D0423	04/04/2023	04/05/2023
---------------------------	-------	---------	----------	---	---------	------------	------------

## Table 915 metals by EPA 6020B

Arsenic	3.08	0.0887	mg/kg	10	B3C3131	03/31/2023	04/04/2023
Barium	49.4	8.87	"	"	"	"	"

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

BG02@0.5'

3/31/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y303852-07 (Soil)

## Table 915 metals by EPA 6020B

Cadmium	0.124		0.0887	mg/kg	10	B3C3131	03/31/2023	04/04/2023	
Copper	ND		8.87	"	"	"	"	"	
Lead	ND		8.87	"	"	"	"	"	
Nickel	ND		8.87	"	"	"	"	"	
Selenium	0.176		0.0887	"	"	"	"	"	
Silver	ND		0.0887	"	"	"	"	"	
Zinc	ND		88.7	"	"	"	"	"	

## Total Metals by 7196A

Chromium, Hexavalent	ND	2.44	5	mg/Kg	1	L674313	03/31/2023	04/05/2023	
----------------------	----	------	---	-------	---	---------	------------	------------	--

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.



Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

BG03@0.5'

3/31/2023 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y303852-08 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.275	0.101	mg/L	1	B3D0506	04/05/2023	04/06/2023	
-------	-------	-------	------	---	---------	------------	------------	--

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D0303	04/03/2023	04/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.6 %	50-150	"	"	"
------------------------	--------	--------	---	---	---

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3147	03/31/2023	04/04/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	04/12/2023	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	104 %	70-130	"	"	"
----------------------------------	-------	--------	---	---	---

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

BG03@0.5'

3/31/2023 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y303852-08 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	105 %		70-130			B3C31 47	03/31/2023	04/12/2023	
Surrogate: 4-Bromofluorobenzene	80.6 %		70-130			"	"	"	

## Metals by Saturated Paste by EPA 6010

Calcium	2.55		0.499	meq/L	10	[CALC]	04/04/2023	04/05/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L674189	04/05/2023	04/06/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00251	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

BG03@0.5'

3/31/2023 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, LLC.  
Y303852-08 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L674189	04/05/2023	04/06/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	52.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	45.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	48.8 %	29-110	"	"	"

## pH in Soil by 9045D

pH	7.42	pH Units	1	B3D0423	04/04/2023	04/05/2023
----	------	----------	---	---------	------------	------------

## SAR by 20B Saturated Paste

SAR	0.0835	SAR	1	B3D0413	04/04/2023	04/05/2023
-----	--------	-----	---	---------	------------	------------

## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.402	0.00500	mmhos/cm	1	B3D0423	04/04/2023	04/05/2023
---------------------------	-------	---------	----------	---	---------	------------	------------

## Table 915 metals by EPA 6020B

Arsenic	2.89	0.0879	mg/kg	10	B3C3131	03/31/2023	04/04/2023
---------	------	--------	-------	----	---------	------------	------------

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

BG03@0.5'

3/31/2023 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y303852-08 (Soil)

## Table 915 metals by EPA 6020B

Barium	46.5	8.79	mg/kg	10	B3C3131	03/31/2023	04/04/2023
Cadmium	0.129	0.0879	"	"	"	"	"
Copper	ND	8.79	"	"	"	"	"
Lead	ND	8.79	"	"	"	"	"
Nickel	ND	8.79	"	"	"	"	"
Selenium	0.152	0.0879	"	"	"	"	"
Silver	ND	0.0879	"	"	"	"	"
Zinc	ND	87.9	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	2.46	5.04	mg/Kg	1	L674313	03/31/2023	04/05/2023
----------------------	----	------	------	-------	---	---------	------------	------------

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

PAD BG01@0.5'

3/31/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y303852-09 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.499	0.0991	mg/L	1	B3D0506	04/05/2023	04/06/2023	
-------	-------	--------	------	---	---------	------------	------------	--

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D0303	04/03/2023	04/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	93.3 %	50-150	"	"	"	"	"
------------------------	--------	--------	---	---	---	---	---

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C3147	03/31/2023	04/04/2023	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	109 %	70-130	"	"	"	"	"
----------------------------------	-------	--------	---	---	---	---	---

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

PAD BG01@0.5'

3/31/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y303852-09 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.9 %		70-130			B3C31 47	03/31/2023	04/04/2023
Surrogate: 4-Bromofluorobenzene	87.8 %		70-130			"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	3.09		0.499	meq/L	10	[CALC]	04/05/2023	04/07/2023
Magnesium	ND		0.823	"	"	"	"	"
Sodium	1.80		0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L674189	04/05/2023	04/06/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00082	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00116	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.00065	0.000394	0.00067	"	"	"	"	"

J

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

## PAD BG01@0.5'

3/31/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

## Waypoint Analytical, LLC. Y303852-09 (Soil)

### PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L674189	04/05/2023	04/06/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	55.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	53 %	29-110	"	"	"

### pH in Soil by 9045D

pH	7.84	pH Units	1	B3D0513	04/05/2023	04/06/2023
----	------	----------	---	---------	------------	------------

### SAR by 20B Saturated Paste

SAR	1.37	SAR	1	B3D0509	04/05/2023	04/07/2023
-----	------	-----	---	---------	------------	------------

### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.613	0.00500	mmhos/cm	1	B3D0513	04/05/2023	04/06/2023
---------------------------	-------	---------	----------	---	---------	------------	------------

### Table 915 metals by EPA 6020B

Arsenic	3.66	0.0895	mg/kg	10	B3D0334	04/03/2023	04/04/2023
---------	------	--------	-------	----	---------	------------	------------

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

PAD BG01@0.5'

3/31/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y303852-09 (Soil)

## Table 915 metals by EPA 6020B

Barium	102	8.95	mg/kg	10	B3D0334	04/03/2023	04/04/2023
Cadmium	0.180	0.0895	"	"	"	"	"
Copper	9.83	8.95	"	"	"	"	"
Lead	10.5	8.95	"	"	"	"	"
Nickel	ND	8.95	"	"	"	"	"
Selenium	0.263	0.0895	"	"	"	"	"
Silver	ND	0.0895	"	"	"	"	"
Zinc	ND	89.5	"	"	"	"	"

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.507	1.04	mg/Kg	1	L674313	03/31/2023	04/05/2023
----------------------	----	-------	------	-------	---	---------	------------	------------

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.



Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C3147 - EPA 5030 (soil)</b>										
<b>Blank (B3C3147-BLK1)</b>					Prepared: 03/31/2023 Analyzed: 04/04/2023					
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	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.0	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C3147 - EPA 5030 (soil)</b>										
<b>LCS (B3C3147-BS1)</b>					Prepared: 03/31/2023 Analyzed: 04/04/2023					
1,2,4-Trimethylbenzene	0.0844	0.00200	mg/kg	0.100		84.4	70-130			
1,3,5-Trimethylbenzene	0.0849	0.00200	"	0.100		84.9	70-130			
Benzene	0.0894	0.00200	"	0.100		89.4	70-130			
Ethylbenzene	0.0832	0.00200	"	0.100		83.2	70-130			
Naphthalene	0.0858	0.00380	"	0.100		85.8	70-130			
Toluene	0.0871	0.00200	"	0.100		87.1	70-130			
o-Xylene	0.0843	0.00200	"	0.100		84.3	70-130			
m,p-Xylene	0.163	0.00400	"	0.200		81.4	70-130			
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		99.8	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C3147 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3C3147-MS1)</b>		<b>Source: Y303828-01</b>			Prepared: 03/31/2023 Analyzed: 04/04/2023					
1,2,4-Trimethylbenzene	0.0476	0.00200	mg/kg	0.100	0.00198	45.7	70-130			QM-07
1,3,5-Trimethylbenzene	0.0571	0.00200	"	0.100	0.0111	46.0	70-130			QM-07
Benzene	0.0651	0.00200	"	0.100	ND	65.1	70-130			QM-07
Ethylbenzene	0.0535	0.00200	"	0.100	ND	53.5	70-130			QM-07
Naphthalene	0.0487	0.00380	"	0.100	0.00254	46.1	70-130			QM-07
Toluene	0.0587	0.00200	"	0.100	ND	58.7	70-130			QM-07
o-Xylene	0.0561	0.00200	"	0.100	ND	56.1	70-130			QM-07
m,p-Xylene	0.104	0.00400	"	0.200	ND	51.8	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C3147 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3C3147-MSD1)</b>		<b>Source: Y303828-01</b>			Prepared: 03/31/2023 Analyzed: 04/04/2023					
1,2,4-Trimethylbenzene	0.0781	0.00200	mg/kg	0.100	0.00198	76.1	70-130	48.4	20	QR-02
1,3,5-Trimethylbenzene	0.0902	0.00200	"	0.100	0.0111	79.1	70-130	45.0	20	QR-02
Benzene	0.0944	0.00200	"	0.100	ND	94.4	70-130	36.7	20	QR-02
Ethylbenzene	0.0828	0.00200	"	0.100	ND	82.8	70-130	43.1	20	QR-02
Naphthalene	0.0860	0.00380	"	0.100	0.00254	83.4	70-130	55.4	20	QR-02
Toluene	0.0876	0.00200	"	0.100	ND	87.6	70-130	39.4	20	QR-02
o-Xylene	0.0871	0.00200	"	0.100	ND	87.1	70-130	43.4	20	QR-02
m,p-Xylene	0.161	0.00400	"	0.200	ND	80.7	70-130	43.7	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

## 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 B3D0303 - EPA 3580										
Blank (B3D0303-BLK1)					Prepared: 04/03/2023 Analyzed: 04/04/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		95.7	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

## 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 B3D0303 - EPA 3580

### LCS (B3D0303-BS1)

Prepared: 04/03/2023 Analyzed: 04/04/2023

Diesel (C10-C28)	951	50.0	mg/kg	1000		95.1	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

## 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 B3D0303 - EPA 3580

Matrix Spike (B3D0303-MS1)		Source: Y303819-21			Prepared: 04/03/2023 Analyzed: 04/04/2023					
Diesel (C10-C28)	869	50.0	mg/kg	1000	ND	86.9	70-130			
Residual Range Organics (C28-C40)	883	200	"	1000	ND	88.3	70-130			
Surrogate: o-Terphenyl	42		"	49.8		83.6	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

## 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 B3D0303 - EPA 3580

Matrix Spike Dup (B3D0303-MSD1)		Source: Y303819-21			Prepared: 04/03/2023 Analyzed: 04/04/2023					
Diesel (C10-C28)	872	50.0	mg/kg	1000	ND	87.2	70-130	0.281	35	
Residual Range Organics (C28-C40)	918	200	"	1000	ND	91.8	70-130	3.88	35	
Surrogate: o-Terphenyl	41		"	49.8		82.5	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

## 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

## 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch B3C3131 - EPA 3050B

#### Blank (B3C3131-BLK1)

Prepared: 03/31/2023 Analyzed: 04/04/2023

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 (B3C3131-BS1)

Prepared: 03/31/2023 Analyzed: 04/04/2023

Arsenic	0.0473	0.000100	mg/kg	0.0500	94.5	80-120
Barium	4.97	0.0100	"	5.00	99.4	80-120
Cadmium	0.0461	0.000100	"	0.0500	92.2	80-120
Copper	0.505	0.0100	"	0.500	101	80-120
Lead	0.0495	0.0100	"	0.0500	98.9	80-120
Nickel	0.0495	0.0100	"	0.0500	99.1	80-120
Selenium	0.0486	0.000100	"	0.0500	97.1	80-120
Silver	0.0473	0.000100	"	0.0500	94.6	80-120
Zinc	0.467	0.100	"	0.500	93.4	80-120

#### Matrix Spike (B3C3131-MS1)

Source: Y303786-01

Prepared: 03/31/2023 Analyzed: 04/04/2023

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

## 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch B3C3131 - EPA 3050B

Matrix Spike (B3C3131-MS1)		Source: Y303786-01			Prepared: 03/31/2023 Analyzed: 04/04/2023					
Arsenic	7.57	0.0914	mg/kg	4.57	2.98	101	75-125			
Barium	824	9.14	"	457	386	95.7	75-125			
Cadmium	4.29	0.0914	"	4.57	0.120	91.3	75-125			
Copper	50.2	9.14	"	45.7	5.36	98.1	75-125			
Lead	9.92	9.14	"	4.57	5.01	107	75-125			
Nickel	11.1	9.14	"	4.57	5.96	113	75-125			
Selenium	4.23	0.0914	"	4.57	0.105	90.3	75-125			
Silver	4.20	0.0914	"	4.57	0.0138	91.5	75-125			
Zinc	68.1	91.4	"	45.7	21.3	103	75-125			

Matrix Spike Dup (B3C3131-MSD1)		Source: Y303786-01			Prepared: 03/31/2023 Analyzed: 04/04/2023					
Arsenic	8.38	0.0996	mg/kg	4.98	2.98	108	75-125	10.1	20	
Barium	1540	9.96	"	498	386	231	75-125	60.4	20	QM-07, QR-DUP
Cadmium	4.58	0.0996	"	4.98	0.120	89.6	75-125	6.52	20	
Copper	56.2	9.96	"	49.8	5.36	102	75-125	11.3	20	
Lead	54.2	9.96	"	4.98	5.01	988	75-125	138	20	QM-07, QR-DUP
Nickel	14.4	9.96	"	4.98	5.96	169	75-125	25.4	20	QM-07, QR-DUP
Selenium	4.60	0.0996	"	4.98	0.105	90.3	75-125	8.37	20	
Silver	4.44	0.0996	"	4.98	0.0138	88.9	75-125	5.69	20	
Zinc	73.8	99.6	"	49.8	21.3	106	75-125	8.04	20	

#### Batch B3D0334 - EPA 3050B

Blank (B3D0334-BLK1)		Prepared: 04/03/2023 Analyzed: 04/04/2023								
Arsenic	ND	0.000100	mg/kg							

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

## 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch B3D0334 - EPA 3050B

##### Blank (B3D0334-BLK1)

Prepared: 04/03/2023 Analyzed: 04/04/2023

Barium	ND	0.0100	mg/kg
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 (B3D0334-BS1)

Prepared: 04/03/2023 Analyzed: 04/04/2023

Arsenic	0.0450	0.000100	mg/kg	0.0500	90.0	80-120
Barium	4.71	0.0100	"	5.00	94.2	80-120
Cadmium	0.0484	0.000100	"	0.0500	96.7	80-120
Copper	0.498	0.0100	"	0.500	99.6	80-120
Lead	0.0504	0.0100	"	0.0500	101	80-120
Nickel	0.0508	0.0100	"	0.0500	102	80-120
Selenium	0.0482	0.000100	"	0.0500	96.5	80-120
Silver	0.0516	0.000100	"	0.0500	103	80-120
Zinc	0.470	0.100	"	0.500	93.9	80-120

##### Matrix Spike (B3D0334-MS1)

Source: Y304015-13

Prepared: 04/03/2023 Analyzed: 04/04/2023

Arsenic	5.97	0.0877	mg/kg	4.38	1.49	102	75-125
Barium	483	8.77	"	438	44.6	100	75-125
Cadmium	4.41	0.0877	"	4.38	0.0465	99.5	75-125
Copper	47.4	8.77	"	43.8	3.81	99.5	75-125
Lead	8.33	8.77	"	4.38	3.91	101	75-125
Nickel	8.39	8.77	"	4.38	3.63	109	75-125

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

**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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B3D0334 - EPA 3050B**

<b>Matrix Spike (B3D0334-MS1)</b>		<b>Source: Y304015-13</b>			Prepared: 04/03/2023 Analyzed: 04/04/2023					
Selenium	3.99	0.0877	mg/kg	4.38	0.0474	89.9	75-125			
Silver	4.42	0.0877	"	4.38	0.0102	101	75-125			
Zinc	60.9	87.7	"	43.8	15.5	104	75-125			
<b>Matrix Spike Dup (B3D0334-MSD1)</b>		<b>Source: Y304015-13</b>			Prepared: 04/03/2023 Analyzed: 04/04/2023					
Arsenic	6.17	0.0952	mg/kg	4.76	1.49	98.3	75-125	3.27	20	
Barium	516	9.52	"	476	44.6	99.0	75-125	6.51	20	
Cadmium	4.69	0.0952	"	4.76	0.0465	97.5	75-125	6.17	20	
Copper	50.5	9.52	"	47.6	3.81	98.1	75-125	6.34	20	
Lead	8.68	9.52	"	4.76	3.91	100	75-125	4.17	20	
Nickel	8.51	9.52	"	4.76	3.63	102	75-125	1.36	20	
Selenium	4.18	0.0952	"	4.76	0.0474	86.9	75-125	4.82	20	
Silver	4.66	0.0952	"	4.76	0.0102	97.8	75-125	5.26	20	
Zinc	62.6	95.2	"	47.6	15.5	98.9	75-125	2.78	20	

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.*

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

### Batch B3D0413 - Saturated Paste Metals

#### Blank (B3D0413-BLK1)

Prepared: 04/04/2023 Analyzed: 04/05/2023

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

#### Duplicate (B3D0413-DUP1)

Source: Y303823-39

Prepared: 04/04/2023 Analyzed: 04/05/2023

SAR	0.00		SAR	62.7	200	200
Calcium PPM	6.34	10.0	mg/L	7.38	15.2	50
Magnesium PPM	2.14	10.0	"	2.49	15.2	50
Sodium PPM	770	10.0	"	772	0.202	50

### Batch B3D0506 - DTPA Sorbitol Preparation

#### Blank (B3D0506-BLK1)

Prepared: 04/05/2023 Analyzed: 04/06/2023

Boron	ND	0.100	mg/L
-------	----	-------	------

#### Duplicate (B3D0506-DUP1)

Source: Y303829-01

Prepared: 04/05/2023 Analyzed: 04/06/2023

Boron	1.15	0.0989	mg/L	0.482	81.8	50	QR-DUP
-------	------	--------	------	-------	------	----	--------

### Batch B3D0509 - Saturated Paste Metals

#### Blank (B3D0509-BLK1)

Prepared: 04/05/2023 Analyzed: 04/07/2023

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

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

### Batch B3D0509 - Saturated Paste Metals

Duplicate (B3D0509-DUP1)		Source: Y303852-09			Prepared: 04/05/2023 Analyzed: 04/07/2023					
SAR	0.00		SAR		1.37			200	200	
Calcium PPM	51.0	10.0	mg/L		61.9			19.2	50	
Magnesium PPM	3.52	10.0	"		4.08			14.8	50	
Sodium PPM	38.5	10.0	"		41.3			7.04	50	

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.*

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

### Batch B3D0423 - Saturated Paste pH/EC

#### Blank (B3D0423-BLK1)

Prepared: 04/04/2023 Analyzed: 04/05/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

#### Duplicate (B3D0423-DUP1)

Source: Y303823-39

Prepared: 04/04/2023 Analyzed: 04/05/2023

pH	8.82		pH Units	8.77		0.568	25
Specific Conductance (EC)	3.18	0.00500	mmhos/cm	3.71		15.3	25

### Batch B3D0513 - Saturated Paste pH/EC

#### Blank (B3D0513-BLK1)

Prepared: 04/05/2023 Analyzed: 04/06/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

#### Duplicate (B3D0513-DUP1)

Source: Y303852-09

Prepared: 04/05/2023 Analyzed: 04/06/2023

Specific Conductance (EC)	0.534	0.00500	mmhos/cm	0.613		13.8	25
pH	7.93		pH Units	7.84		1.14	25

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch L674189 - 3550B**

MSD (L 92211-MSD-L674189)		Source: 92211			Prepared: 04/05/2023 Analyzed: 04/06/2023					
Dibenz(a,h)anthracene	0.125	0.00067	mg/Kg	0.166	0.00127	74.5	30-130	4	30	
Fluoranthene	0.106	0.00067	"	0.166	<0.000394	63.8	30-130	1.8	30	
Fluorene	0.107	0.00067	"	0.166	<0.000286	64.4	30-130	0	30	
Indeno(1,2,3-cd)pyrene	0.0824	0.00067	"	0.166	0.00114	48.9	30-130	11.4	30	
Naphthalene	0.0933	0.00201	"	0.166	<0.00145	56.2	30-130	2.6	30	
Pyrene	0.104	0.00067	"	0.166	<0.000643	62.6	30-130	0.9	30	
Benzo(b)fluoranthene	0.0669	0.00067	"	0.166	0.000793	39.8	30-130	5.8	30	
1-Methylnaphthalene	0.0955	0.00201	"	0.166	<0.00109	57.5	30-130	4	30	
Benzo(a)pyrene	0.12	0.00067	"	0.166	<0.000468	72.2	30-130	0.8	30	
Benzo(a)anthracene	0.0983	0.00067	"	0.166	<0.000493	59.2	30-130	1	30	
Anthracene	0.116	0.00067	"	0.166	<0.000334	69.8	30-130	0.8	30	
Acenaphthene	0.0957	0.00067	"	0.166	<0.000304	57.6	30-130	1.2	30	
2-Methylnaphthalene	0.0902	0.00201	"	0.166	<0.00194	54.3	30-130	3.1	30	
Benzo(k)fluoranthene	0.108	0.00067	"	0.166	0.000928	64.5	30-130	6.6	30	
Chrysene	0.122	0.00067	"	0.166	<0.000624	73.4	30-130	0.8	30	
Surrogate: Nitrobenzene-d5	53		"	0.332	153	53	29-110			
Surrogate: 4-Terphenyl-d14	61.7		"	0.332	186	61.7	33-122			
Surrogate: 2-Fluorobiphenyl	53.6		"	0.332	154	53.6	33-115			

MS (L 92211-MS-L674189)		Source: 92211			Prepared: 04/05/2023 Analyzed: 04/06/2023					
Dibenz(a,h)anthracene	0.12	0.00067	mg/Kg	0.164	0.00127	72.3	30-130			
Fluoranthene	0.108	0.00067	"	0.164	<0.000394	65.8	30-130			
Fluorene	0.107	0.00067	"	0.164	<0.000286	65.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0735	0.00067	"	0.164	0.00114	44.1	30-130			
Naphthalene	0.0958	0.00201	"	0.164	<0.00145	58.4	30-130			
Pyrene	0.105	0.00067	"	0.164	<0.000643	64	30-130			
Chrysene	0.121	0.00067	"	0.164	<0.000624	73.7	30-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch L674189 - 3550B**

MS (L 92211-MS-L674189)		Source: 92211			Prepared: 04/05/2023 Analyzed: 04/06/2023					
Benzo(b)fluoranthene	0.0631	0.00067	mg/Kg	0.164	0.000793	37.9	30-130			
Benzo(a)pyrene	0.119	0.00067	"	0.164	<0.000468	72.5	30-130			
Benzo(a)anthracene	0.0973	0.00067	"	0.164	<0.000493	59.3	30-130			
Anthracene	0.115	0.00067	"	0.164	<0.000334	70.1	30-130			
Acenaphthene	0.0969	0.00067	"	0.164	<0.000304	59	30-130			
2-Methylnaphthalene	0.0931	0.00201	"	0.164	<0.00194	56.7	30-130			
1-Methylnaphthalene	0.0994	0.00201	"	0.164	<0.00109	60.6	30-130			
Benzo(k)fluoranthene	0.101	0.00067	"	0.164	0.000928	61	30-130			
Surrogate: 2-Fluorobiphenyl	53.7		"	0.329	154	53.7	33-115			
Surrogate: Nitrobenzene-d5	52.5		"	0.329	153	52.5	29-110			
Surrogate: 4-Terphenyl-d14	62.6		"	0.329	186	62.6	33-122			

**LCS (LCS-L674189)**

Prepared: 04/05/2023 Analyzed: 04/06/2023

Benzo(k)fluoranthene	0.0913	0.00067	mg/Kg	0.167		54.6	30-130
Chrysene	0.132	0.00067	"	0.167		79	30-130
Dibenz(a,h)anthracene	0.127	0.00067	"	0.167		76	30-130
Fluoranthene	0.119	0.00067	"	0.167		71.2	30-130
Indeno(1,2,3-cd)pyrene	0.0872	0.00067	"	0.167		52.2	30-130
Benzo(b)fluoranthene	0.075	0.00067	"	0.167		44.9	30-130
Pyrene	0.115	0.00067	"	0.167		68.8	30-130
Fluorene	0.125	0.00067	"	0.167		74.8	30-130
Benzo(a)anthracene	0.111	0.00067	"	0.167		66.4	30-130
Anthracene	0.133	0.00067	"	0.167		79.6	30-130
Acenaphthene	0.109	0.00067	"	0.167		65.2	30-130
2-Methylnaphthalene	0.103	0.00201	"	0.167		61.6	30-130
1-Methylnaphthalene	0.11	0.00201	"	0.167		65.8	30-130
Naphthalene	0.106	0.00201	"	0.167		63.4	30-130

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch L674189 - 3550B**

**LCS (LCS-L674189)**

Prepared: 04/05/2023 Analyzed: 04/06/2023

Benzo(a)pyrene	0.133	0.00067	mg/Kg	0.167		79.6	30-130			
Surrogate: Nitrobenzene-d5	60.9		"	0.333		60.9	29-110			
Surrogate: 4-Terphenyl-d14	69.9		"	0.333		69.9	33-122			
Surrogate: 2-Fluorobiphenyl	64.2		"	0.333		64.2	33-115			

**LRB (LRB-L674189)**

Prepared: 04/05/2023 Analyzed: 04/06/2023

Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	59.1		"	0.333		59.1	29-110			
Surrogate: 4-Terphenyl-d14	71.1		"	0.333		71.1	33-122			
Surrogate: 2-Fluorobiphenyl	63		"	0.333		63	33-115			

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

## 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
<b>Batch L674313 -</b>										
<b>DUP (L 92230-DUP)</b>	<b>Source: Y303852-04</b>				Prepared: Analyzed: 04/05/2023					
Chromium, Hexavalent	ND	2.54	mg/Kg		<2.54	-		0	20	
<b>MS (L 92230-MS)</b>	<b>Source: Y303852-04</b>				Prepared: Analyzed: 04/05/2023					
Chromium, Hexavalent	31	2.6	mg/Kg	41.5	<1.27	75	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 04/05/2023					
Chromium, Hexavalent	6.35	0.5	mg/Kg	8		79	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 04/05/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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.

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 9C2099005  
Project: WES - Bertha Pyles #2 & #3 TB

## 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 L674312 -										
<b>DUP (L 92120-DUP)</b>	<b>Source: 92120</b>				Prepared: Analyzed: 04/05/2023					
Chromium, Hexavalent	ND	2.51	mg/Kg		<2.51		-	0	20	
<b>MS (L 92120-MS)</b>	<b>Source: 92120</b>				Prepared: Analyzed: 04/05/2023					
Chromium, Hexavalent	29.7	2.5	mg/Kg	38.6	<1.22	77	75-125			

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.*

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 9C2099005

Project: WES - Bertha Pyles #2 & #3 TB

### Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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.

J Estimated Value. Analyte below reported quantitation limit.

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.



*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.*