



June 18, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Bonanza - North Platte 44-11-28HZ Project Number - 331805
Facility Decommi**

Attached are your analytical results for Bonanza - North Platte 44-11-28HZ Facility Decommi received by Origins Laboratory, Inc. June 09, 2021. This project is associated with Origins project number Y106172-01.

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



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: 331805
Project: Bonanza - North Platte 44-11-28HZ
Facility Decommi

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-SS-04@0-0.25'	Y106172-01	Soil	June 8, 2021 15:37	06/09/2021 07:07
TB-SS-05@0-0.25'	Y106172-02	Soil	June 8, 2021 15:39	06/09/2021 07:07
TB-SS-06@0-0.25'	Y106172-03	Soil	June 8, 2021 15:41	06/09/2021 07:07
TB-SS-07@0-0.25'	Y106172-04	Soil	June 8, 2021 15:43	06/09/2021 07:07
TB-SS-08@0-0.25'	Y106172-05	Soil	June 8, 2021 16:01	06/09/2021 07:07
TB-SS-09@0-0.25'	Y106172-06	Soil	June 8, 2021 16:03	06/09/2021 07:07
TB-SS-10@0-0.25'	Y106172-07	Soil	June 8, 2021 16:05	06/09/2021 07:07
TB-SS-11@3'	Y106172-08	Soil	June 8, 2021 16:07	06/09/2021 07:07
TB-SS-14@0-0.25'	Y106172-09	Soil	June 8, 2021 16:09	06/09/2021 07:07
TB-SS-15@0-0.25'	Y106172-10	Soil	June 8, 2021 16:15	06/09/2021 07:07

Origins Laboratory, Inc.



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ORIGINS
 LABORATORY, INC
 Y100172

Client: EAGLE ENV CONSULTING Project Manager: MARTIN ECKERT III
 Address: 8000 W 44TH AVE. Project Name: NORTH PLATTE 44-11-28HZ
WHEAT RIDGE, CO Project Number: _____
 Telephone Number: 303-433-0474 Samples Collected By: KS
 Email Address: MCE@EAGLE-ENV.COM

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil			As Arsenia
TR-55-04 CO-025	6-8-21	1537	3	X				X			ES, P, SR, B, F	
TR-55-05 CO-025		1539									SP, SR, P, SR, C 2	
TR-55-06 CO-025		1541										
TR-55-07 CO-025		1543										
TR-55-08 CO-025		1601										
TR-55-09 CO-025		1603										
TR-55-10 CO-025		1605										
TR-55-11 C 3		1607										
TR-55-14 CO-025		1609										
TR-55-15 CO-025		1615										
Relinquished By:	Date: 6-9-21	Time: 0707	Time:	Received By:	Date:	Date:	Date:	Turnaround Time:	Some Day <input type="checkbox"/>	24 Hr <input type="checkbox"/>	48 Hr <input type="checkbox"/>	72 Hr <input type="checkbox"/>
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Date:	Date:	Standard <input checked="" type="checkbox"/>				

Temp Received: 14
 Date Results Needed: BONANZA LABEL

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 Project: Bonanza - North Platte 44-11-28HZ
 Facility Decommi

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y106172 Client: Eagle/Bonanza
 Client Project ID: North Platte 44-11-28HZ
 Checklist Completed by: Jm Shipped Via: HD
 Date/time completed: 10/19/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 114 °c / _____ °c / _____ °c (Describe)
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubbles) present? If yes, contact client and note in narrative.			X	
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)			X	
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 Jm (Project Manager)

10-10-12
 Date/Time Reviewed

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 Facility Decommi

TB-SS-04@0-0.25'
6/8/2021 3:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106172-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.0200	0.100	mg/L	1	B1F0921	ZZZ	06/09/2021	06/09/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F0911	TEM	06/09/2021	06/09/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	73.0 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0912	TEM	06/09/2021	06/11/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.8 %	70-130			"	"	"	"	

Metals by Saturated Paste

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106172-01 (Soil)

Metals by Saturated Paste

Calcium	0.501		meq/L	1	[CALC]	CJM	06/10/2021	06/11/2021	
Magnesium	0.155		"	"	"	CJM	"	"	
Sodium	0.147		"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L558078		06/11/2021	06/14/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000208	0.00067	"	"	"		"	"	J
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

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TB-SS-04@0-0.25'
6/8/2021 3:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106172-01 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	78.3 %	33-115			L5580 78		06/11/2021	06/14/2021	
Surrogate: 4-Terphenyl-d14	78.9 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	62.3 %	29-110			"	"	"	"	

pH in Soil by EPA 9045D

pH	7.80		pH Units	1	B1F1022	DJL	06/10/2021	06/16/2021	
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SAR by 20B Saturated Paste

SAR	0.256		SAR	1	B1F1024	CJM	06/10/2021	06/11/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.100	0.00500	mmhos/cm	1	B1F1023	DJL	06/10/2021	06/15/2021	
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TB-SS-05@0-0.25'
6/8/2021 3:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106172-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B1F0921	ZZZ	06/09/2021	06/09/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	1510	50.0	mg/kg	1	B1F0911	TEM	06/09/2021	06/10/2021	
Residual Range Organics (C28-C40)	910	200	"	"	"	TEM	"	"	

Surrogate: <i>o</i> -Terphenyl	97.8 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0912	TEM	06/09/2021	06/11/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	260	5.00	"	25	"	TEM	"	"	
Xylenes, total	ND	0.00200	"	1	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	173 %	70-130			"	"	"	"	S-01

Metals by Saturated Paste

Origins Laboratory, Inc.



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TB-SS-05@0-0.25'
6/8/2021 3:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106172-02 (Soil)

Metals by Saturated Paste

Calcium	3.03		meq/L	1	[CALC]	CJM	06/10/2021	06/11/2021	
Magnesium	0.568		"	"	"	CJM	"	"	
Sodium	0.174		"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0134	mg/Kg	20	L558078		06/11/2021	06/14/2021	
2-Methylnaphthalene	ND	0.0134	"	"	"		"	"	
Acenaphthene	ND	0.0134	"	"	"		"	"	
Anthracene	ND	0.0134	"	"	"		"	"	
Benzo(a)anthracene	ND	0.0134	"	"	"		"	"	
Benzo(a)pyrene	0.00526	0.0134	"	"	"		"	"	J
Benzo(b)fluoranthene	ND	0.0134	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.0134	"	"	"		"	"	
Chrysene	0.0584	0.0134	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.0134	"	"	"		"	"	
Fluoranthene	ND	0.0134	"	"	"		"	"	
Fluorene	ND	0.0134	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.0134	"	"	"		"	"	
Naphthalene	ND	0.0134	"	"	"		"	"	
Pyrene	0.013	0.0134	"	"	"		"	"	J

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TB-SS-05@0-0.25'
6/8/2021 3:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106172-02 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	82.7 %	33-115			L5580 78		06/11/2021	06/14/2021	
Surrogate: 4-Terphenyl-d14	82.4 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	59.4 %	29-110			"	"	"	"	

pH in Soil by EPA 9045D

pH	8.43		pH Units	1	B1F1022	DJL	06/10/2021	06/16/2021	
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SAR by 20B Saturated Paste

SAR	0.130		SAR	1	B1F1024	CJM	06/10/2021	06/11/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.349	0.00500	mmhos/cm	1	B1F1023	DJL	06/10/2021	06/15/2021	
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TB-SS-06@0-0.25'
6/8/2021 3:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106172-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.0400	0.100	mg/L	1	B1F0921	ZZZ	06/09/2021	06/09/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F0911	TEM	06/09/2021	06/09/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	73.5 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0912	TEM	06/09/2021	06/11/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.4 %	70-130			"	"	"	"	

Metals by Saturated Paste

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TB-SS-06@0-0.25'
6/8/2021 3:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106172-03 (Soil)

Metals by Saturated Paste

Calcium	1.11		meq/L	1	[CALC]	CJM	06/10/2021	06/11/2021	
Magnesium	0.236		"	"	"	CJM	"	"	
Sodium	0.225		"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L558078		06/11/2021	06/14/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

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TB-SS-06@0-0.25'
6/8/2021 3:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106172-03 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	83.4 %	33-115			L5580 78		06/11/2021	06/14/2021	
Surrogate: 4-Terphenyl-d14	81.3 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	65.6 %	29-110			"	"	"	"	

pH in Soil by EPA 9045D

pH	8.15		pH Units	1	B1F1022	DJL	06/10/2021	06/16/2021	
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SAR by 20B Saturated Paste

SAR	0.274		SAR	1	B1F1024	CJM	06/10/2021	06/11/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.165	0.00500	mmhos/cm	1	B1F1023	DJL	06/10/2021	06/15/2021	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: 331805
 Project: Bonanza - North Platte 44-11-28HZ
 Facility Decommi

TB-SS-07@0-0.25'
6/8/2021 3:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106172-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.0605	0.101	mg/L	1	B1F0921	ZZZ	06/09/2021	06/09/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F0911	TEM	06/09/2021	06/09/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	73.6 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0912	TEM	06/09/2021	06/11/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.7 %	70-130			"	"	"	"	

Metals by Saturated Paste

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: 331805
 Project: Bonanza - North Platte 44-11-28HZ
 Facility Decommi

TB-SS-07@0-0.25'
6/8/2021 3:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y106172-04 (Soil)

Metals by Saturated Paste

Calcium	2.00		meq/L	1	[CALC]	CJM	06/10/2021	06/11/2021	
Magnesium	0.701		"	"	"	CJM	"	"	
Sodium	0.260		"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L558078		06/11/2021	06/14/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000234	0.00067	"	"	"		"	"	J
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
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Martin C Eckert III
 Project Number: 331805
 Project: Bonanza - North Platte 44-11-28HZ
 Facility Decommi

TB-SS-07@0-0.25'
6/8/2021 3:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106172-04 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	80.4 %	33-115			L5580 78		06/11/2021	06/14/2021	
Surrogate: 4-Terphenyl-d14	81 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	62.1 %	29-110			"	"	"	"	

pH in Soil by EPA 9045D

pH	12.0		pH Units	1	B1F1022	DJL	06/10/2021	06/16/2021	
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SAR by 20B Saturated Paste

SAR	0.224		SAR	1	B1F1024	CJM	06/10/2021	06/11/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.329	0.00500	mmhos/cm	1	B1F1023	DJL	06/10/2021	06/15/2021	
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Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: 331805
 Project: Bonanza - North Platte 44-11-28HZ
 Facility Decommi

TB-SS-08@0-0.25'
6/8/2021 4:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106172-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B1F0921	ZZZ	06/09/2021	06/09/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F0911	TEM	06/09/2021	06/10/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: <i>o</i> -Terphenyl	70.9 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0912	TEM	06/09/2021	06/11/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	109 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.5 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: 331805
 Project: Bonanza - North Platte 44-11-28HZ
 Facility Decommi

TB-SS-08@0-0.25'
6/8/2021 4:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106172-05 (Soil)

Metals by Saturated Paste

Calcium	0.244		meq/L	1	[CALC]	CJM	06/10/2021	06/11/2021	
Magnesium	0.0913		"	"	"	CJM	"	"	
Sodium	0.0918		"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L558078		06/11/2021	06/14/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000284	0.00067	"	"	"		"	"	J
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.000321	0.00067	"	"	"		"	"	J
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: 331805
 Project: Bonanza - North Platte 44-11-28HZ
 Facility Decommi

TB-SS-08@0-0.25'
6/8/2021 4:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106172-05 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	76.9 %	33-115			L5580 78		06/11/2021	06/14/2021	
Surrogate: 4-Terphenyl-d14	87.2 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	61.1 %	29-110			"	"	"	"	

pH in Soil by EPA 9045D

pH	7.17		pH Units	1	B1F1022	DJL	06/10/2021	06/16/2021	
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SAR by 20B Saturated Paste

SAR	0.224		SAR	1	B1F1024	CJM	06/10/2021	06/11/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0641	0.00500	mmhos/cm	1	B1F1023	DJL	06/10/2021	06/15/2021	
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Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: 331805
 Project: Bonanza - North Platte 44-11-28HZ
 Facility Decommi

TB-SS-09@0-0.25'
6/8/2021 4:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106172-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.0599	0.0999	mg/L	1	B1F0921	ZZZ	06/09/2021	06/09/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F0911	TEM	06/09/2021	06/10/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	92.4 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0912	TEM	06/09/2021	06/11/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	109 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	70-130			"	"	"	"	

Metals by Saturated Paste

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: 331805
 Project: Bonanza - North Platte 44-11-28HZ
 Facility Decommi

TB-SS-09@0-0.25'
6/8/2021 4:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106172-06 (Soil)

Metals by Saturated Paste

Calcium	1.32		meq/L	1	[CALC]	CJM	06/10/2021	06/11/2021	
Magnesium	0.577		"	"	"	CJM	"	"	
Sodium	0.503		"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L558078		06/11/2021	06/14/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000339	0.00067	"	"	"		"	"	J
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: 331805
 Project: Bonanza - North Platte 44-11-28HZ
 Facility Decommi

TB-SS-09@0-0.25'
6/8/2021 4:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106172-06 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	80.9 %	33-115			L5580 78		06/11/2021	06/14/2021	
Surrogate: 4-Terphenyl-d14	75.5 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	62.1 %	29-110			"	"	"	"	

pH in Soil by EPA 9045D

pH	8.17		pH Units	1	B1F1022	DJL	06/10/2021	06/16/2021	
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SAR by 20B Saturated Paste

SAR	0.518		SAR	1	B1F1024	CJM	06/10/2021	06/11/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.269	0.00500	mmhos/cm	1	B1F1023	DJL	06/10/2021	06/15/2021	
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Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: 331805
 Project: Bonanza - North Platte 44-11-28HZ
 Facility Decommi

TB-SS-10@0-0.25'
6/8/2021 4:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106172-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.0198	0.0991	mg/L	1	B1F0921	ZZZ	06/09/2021	06/09/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F0911	TEM	06/09/2021	06/10/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	72.1 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0912	TEM	06/09/2021	06/11/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	109 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	70-130			"	"	"	"	

Metals by Saturated Paste

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: 331805
 Project: Bonanza - North Platte 44-11-28HZ
 Facility Decommi

TB-SS-10@0-0.25'
6/8/2021 4:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106172-07 (Soil)

Metals by Saturated Paste

Calcium	0.951		meq/L	1	[CALC]	CJM	06/10/2021	06/11/2021	
Magnesium	0.229		"	"	"	CJM	"	"	
Sodium	0.168		"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L558078		06/11/2021	06/14/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: 331805
 Project: Bonanza - North Platte 44-11-28HZ
 Facility Decommi

TB-SS-10@0-0.25'
6/8/2021 4:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106172-07 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	80.2 %	33-115			L5580 78		06/11/2021	06/14/2021	
Surrogate: 4-Terphenyl-d14	80.2 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	60.7 %	29-110			"	"	"	"	

pH in Soil by EPA 9045D

pH	8.20		pH Units	1	B1F1022	DJL	06/10/2021	06/16/2021	
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SAR by 20B Saturated Paste

SAR	0.219		SAR	1	B1F1024	CJM	06/10/2021	06/11/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.162	0.00500	mmhos/cm	1	B1F1023	DJL	06/10/2021	06/15/2021	
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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: 331805
 Project: Bonanza - North Platte 44-11-28HZ
 Facility Decommi

TB-SS-11@3'

6/8/2021 4:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106172-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.0989	0.0989	mg/L	1	B1F0921	ZZZ	06/09/2021	06/09/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F0911	TEM	06/09/2021	06/10/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	69.4 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0912	TEM	06/09/2021	06/11/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	109 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3 %	70-130			"	"	"	"	

Metals by Saturated Paste

Origins Laboratory, Inc.



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TB-SS-11@3'

6/8/2021 4:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106172-08 (Soil)

Metals by Saturated Paste

Calcium	1.33		meq/L	1	[CALC]	CJM	06/10/2021	06/11/2021	
Magnesium	0.430		"	"	"	CJM	"	"	
Sodium	1.22		"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L558078		06/11/2021	06/14/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.00035	0.00067	"	"	"		"	"	J
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.000883	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	0.000656	0.00067	"	"	"		"	"	J
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

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 Facility Decommi

TB-SS-11@3'

6/8/2021 4:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106172-08 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	73 %	33-115			L5580 78		06/11/2021	06/14/2021	
Surrogate: 4-Terphenyl-d14	74.5 %	33-122			"		"	"	
Surrogate: Nitrobenzene-d5	58.2 %	29-110			"		"	"	

pH in Soil by EPA 9045D

pH	8.27		pH Units	1	B1F1022	DJL	06/10/2021	06/16/2021	
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SAR by 20B Saturated Paste

SAR	1.30		SAR	1	B1F1024	CJM	06/10/2021	06/11/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.307	0.00500	mmhos/cm	1	B1F1023	DJL	06/10/2021	06/15/2021	
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Martin C Eckert III
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 Project: Bonanza - North Platte 44-11-28HZ
 Facility Decommi

TB-SS-14@0-0.25'
6/8/2021 4:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106172-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.0398	0.0995	mg/L	1	B1F0921	ZZZ	06/09/2021	06/09/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F0911	TEM	06/09/2021	06/10/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	71.5 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0912	TEM	06/09/2021	06/11/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	109 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3 %	70-130			"	"	"	"	

Metals by Saturated Paste

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: 331805
 Project: Bonanza - North Platte 44-11-28HZ
 Facility Decommi

TB-SS-14@0-0.25'
6/8/2021 4:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106172-09 (Soil)

Metals by Saturated Paste

Calcium	1.17		meq/L	1	[CALC]	CJM	06/10/2021	06/11/2021	
Magnesium	0.161		"	"	"	CJM	"	"	
Sodium	0.174		"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L558078		06/11/2021	06/14/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000218	0.00067	"	"	"		"	"	J
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

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Martin C Eckert III
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 Facility Decommi

TB-SS-14@0-0.25'
6/8/2021 4:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106172-09 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	76.3 %	33-115			L5580 78		06/11/2021	06/14/2021	
Surrogate: 4-Terphenyl-d14	76.3 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	56.9 %	29-110			"	"	"	"	

pH in Soil by EPA 9045D

pH	8.21		pH Units	1	B1F1022	DJL	06/10/2021	06/16/2021	
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SAR by 20B Saturated Paste

SAR	0.213		SAR	1	B1F1024	CJM	06/10/2021	06/11/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.148	0.00500	mmhos/cm	1	B1F1023	DJL	06/10/2021	06/15/2021	
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Martin C Eckert III
 Project Number: 331805
 Project: Bonanza - North Platte 44-11-28HZ
 Facility Decommi

TB-SS-15@0-0.25'
6/8/2021 4:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106172-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.0399	0.0998	mg/L	1	B1F0921	ZZZ	06/09/2021	06/09/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F0911	TEM	06/09/2021	06/10/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	71.7 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0912	TEM	06/09/2021	06/11/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	110 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.2 %	70-130			"	"	"	"	

Metals by Saturated Paste

Origins Laboratory, Inc.



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 Facility Decommi

TB-SS-15@0-0.25'
6/8/2021 4:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106172-10 (Soil)

Metals by Saturated Paste

Calcium	0.929		meq/L	1	[CALC]	CJM	06/10/2021	06/11/2021	
Magnesium	0.253		"	"	"	CJM	"	"	
Sodium	0.129		"	"	"	CJM	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L558078		06/11/2021	06/14/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000498	0.00067	"	"	"		"	"	J
Benzo(b)fluoranthene	0.000304	0.00067	"	"	"		"	"	J
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	0.000629	0.00067	"	"	"		"	"	J
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

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 Facility Decommi

TB-SS-15@0-0.25'
6/8/2021 4:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106172-10 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	75.3 %	33-115			L5580 78		06/11/2021	06/14/2021	
Surrogate: 4-Terphenyl-d14	71.1 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	59 %	29-110			"	"	"	"	

pH in Soil by EPA 9045D

pH	8.31		pH Units	1	B1F1022	DJL	06/10/2021	06/16/2021	
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SAR by 20B Saturated Paste

SAR	0.168		SAR	1	B1F1024	CJM	06/10/2021	06/11/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.170	0.00500	mmhos/cm	1	B1F1023	DJL	06/10/2021	06/15/2021	
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 Facility Decommi

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 B1F0911 - EPA 3550B										
Blank (B1F0911-BLK1)										
					Prepared: 06/09/2021 Analyzed: 06/09/2021					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	43		"	50.0		86.9	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1F0911 - EPA 3550B

LCS (B1F0911-BS1)

Prepared: 06/09/2021 Analyzed: 06/09/2021

Diesel (C10-C28)	809	50.0	mg/kg	1000		80.9	70-130			
Residual Range Organics (C28-C40)	941	200	"	1000		94.1	70-130			
Surrogate: o-Terphenyl	46		"	50.0		92.5	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1F0911 - EPA 3550B

Matrix Spike (B1F0911-MS1)	Source: Y106177-01			Prepared: 06/09/2021 Analyzed: 06/09/2021						
Diesel (C10-C28)	787	50.0	mg/kg	1000	ND	78.7	70-130			
Residual Range Organics (C28-C40)	887	200	"	1000	50.4	83.6	70-130			
Surrogate: o-Terphenyl	44		"	50.0		87.9	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1F0911 - EPA 3550B

Matrix Spike Dup (B1F0911-MSD1)	Source: Y106177-01		Prepared: 06/09/2021 Analyzed: 06/09/2021							
Diesel (C10-C28)	902	50.0	mg/kg	1000	ND	90.2	70-130	13.6	35	
Residual Range Organics (C28-C40)	1070	200	"	1000	50.4	102	70-130	18.4	35	
Surrogate: o-Terphenyl	52		"	50.0		103	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1F0912 - EPA 5030 (soil)										
Blank (B1F0912-BLK1)										
					Prepared: 06/09/2021 Analyzed: 06/11/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

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 Project: Bonanza - North Platte 44-11-28HZ
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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 B1F0912 - EPA 5030 (soil)

LCS (B1F0912-BS1)

Prepared: 06/09/2021 Analyzed: 06/11/2021

1,2,4-Trimethylbenzene	0.0508	0.00200	mg/kg	0.0500		102	70-130			
Naphthalene	0.0509	0.0100	"	0.0500		102	70-130			
1,3,5-Trimethylbenzene	0.0516	0.00200	"	0.0500		103	70-130			
Benzene	0.0442	0.00200	"	0.0500		88.3	70-130			
Ethylbenzene	0.0509	0.00200	"	0.0500		102	70-130			
m,p-Xylene	0.100	0.00400	"	0.100		100	70-130			
o-Xylene	0.0481	0.00200	"	0.0500		96.2	70-130			
Toluene	0.0510	0.00200	"	0.0500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.7	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 B1F0912 - EPA 5030 (soil)

Matrix Spike (B1F0912-MS1)	Source: Y106170-01			Prepared: 06/09/2021 Analyzed: 06/11/2021						
1,2,4-Trimethylbenzene	0.0422	0.00200	mg/kg	0.0500	ND	84.4	70-130			
Naphthalene	0.0428	0.0100	"	0.0500	0.00260	80.5	70-130			
1,3,5-Trimethylbenzene	0.0511	0.00200	"	0.0500	ND	102	70-130			
Benzene	0.0468	0.00200	"	0.0500	ND	93.6	70-130			
Ethylbenzene	0.0520	0.00200	"	0.0500	ND	104	70-130			
m,p-Xylene	0.0953	0.00400	"	0.100	ND	95.3	70-130			
o-Xylene	0.0502	0.00200	"	0.0500	0.000920	98.5	70-130			
Toluene	0.0518	0.00200	"	0.0500	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	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 B1F0912 - EPA 5030 (soil)

Matrix Spike Dup (B1F0912-MSD1)	Source: Y106170-01			Prepared: 06/09/2021 Analyzed: 06/11/2021						
1,2,4-Trimethylbenzene	0.0438	0.00200	mg/kg	0.0500	ND	87.6	70-130	3.63	20	
Naphthalene	0.0424	0.0100	"	0.0500	0.00260	79.5	70-130	1.13	20	
1,3,5-Trimethylbenzene	0.0528	0.00200	"	0.0500	ND	106	70-130	3.27	20	
Benzene	0.0484	0.00200	"	0.0500	ND	96.8	70-130	3.40	20	
Ethylbenzene	0.0541	0.00200	"	0.0500	ND	108	70-130	4.00	20	
m,p-Xylene	0.0996	0.00400	"	0.100	ND	99.6	70-130	4.33	20	
o-Xylene	0.0528	0.00200	"	0.0500	0.000920	104	70-130	5.09	20	
Toluene	0.0546	0.00200	"	0.0500	ND	109	70-130	5.19	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

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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 L558078 - 3550B

MSD (L 95825-MSD-L558078)		Source: 95825			Prepared: 06/11/2021 Analyzed: 06/14/2021					
Benzo(b)fluoranthene	0.0828	0.000138	mg/Kg	0.167	<0.000138	49.5	30-130	1.9	30	
1-Methylnaphthalene	0.116	0.00048	"	0.167	<0.000480	69.4	30-130	4.4	30	
2-Methylnaphthalene	0.117	0.000542	"	0.167	<0.000542	70	30-130	4.3	30	
Acenaphthene	0.123	0.000431	"	0.167	<0.000431	73.6	30-130	0	30	
Anthracene	0.145	0.000426	"	0.167	<0.000426	86.8	30-130	0	30	
Benzo(a)pyrene	0.134	0.000133	"	0.167	0.00028	80.2	30-130	1.5	30	
Pyrene	0.115	0.000387	"	0.167	<0.000387	68.8	30-130	0.8	30	
Naphthalene	0.11	0.000467	"	0.167	<0.000467	65.8	30-130	5.6	30	
Indeno(1,2,3-cd)pyrene	0.0986	0.000344	"	0.167	<0.000344	59	30-130	7.1	30	
Fluorene	0.132	0.000501	"	0.167	<0.000501	79	30-130	0.7	30	
Fluoranthene	0.143	0.000529	"	0.167	<0.000529	85.6	30-130	2	30	
Dibenz(a,h)anthracene	0.107	0.000279	"	0.167	0.0004	64	30-130	6.7	30	
Chrysene	0.128	0.000256	"	0.167	<0.000256	76.6	30-130	2.3	30	
Benzo(k)fluoranthene	0.0862	0.000486	"	0.167	<0.000486	51.6	30-130	4.7	30	
Benzo(a)anthracene	0.13	0.000441	"	0.167	<0.000441	77.8	30-130	1.5	30	
Surrogate: 2-Fluorobiphenyl	75		"	0.333	211	75	33-115			
Surrogate: 4-Terphenyl-d14	81.6		"	0.333	262	81.6	33-122			
Surrogate: Nitrobenzene-d5	57.3		"	0.333	172	57.3	29-110			

MS (L 95825-MS-L558078)		Source: 95825			Prepared: 06/11/2021 Analyzed: 06/14/2021					
Benzo(b)fluoranthene	0.0812	0.000138	mg/Kg	0.163	<0.000138	49.8	30-130			
Dibenz(a,h)anthracene	0.1	0.000279	"	0.163	0.0004	61.3	30-130			
Pyrene	0.116	0.000387	"	0.163	<0.000387	71.1	30-130			
Naphthalene	0.104	0.000467	"	0.163	<0.000467	63.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0918	0.000344	"	0.163	<0.000344	56.3	30-130			
Fluorene	0.133	0.000501	"	0.163	<0.000501	81.5	30-130			
Fluoranthene	0.146	0.000529	"	0.163	<0.000529	89.5	30-130			

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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 L558078 - 3550B

MS (L 95825-MS-L558078)	Source: 95825		Prepared: 06/11/2021 Analyzed: 06/14/2021							
2-Methylnaphthalene	0.112	0.000542	mg/Kg	0.163	<0.000542	68.7	30-130			
Benzo(a)pyrene	0.132	0.000133	"	0.163	0.00028	80.9	30-130			
Benzo(a)anthracene	0.128	0.000441	"	0.163	<0.000441	78.5	30-130			
Anthracene	0.145	0.000426	"	0.163	<0.000426	88.9	30-130			
Acenaphthene	0.123	0.000431	"	0.163	<0.000431	75.4	30-130			
Benzo(k)fluoranthene	0.0822	0.000486	"	0.163	<0.000486	50.4	30-130			
Chrysene	0.125	0.000256	"	0.163	<0.000256	76.6	30-130			
1-Methylnaphthalene	0.111	0.00048	"	0.163	<0.000480	68	30-130			
Surrogate: Nitrobenzene-d5	55.5		"	0.326	172	55.5	29-110			
Surrogate: 4-Terphenyl-d14	86.5		"	0.326	262	86.5	33-122			
Surrogate: 2-Fluorobiphenyl	74.8		"	0.326	211	74.8	33-115			

LCS (LCS-L558078)	Prepared: 06/11/2021 Analyzed: 06/14/2021									
Dibenz(a,h)anthracene	0.1	0.000279	mg/Kg	0.167		59.8	30-130			
Fluoranthene	0.157	0.000529	"	0.167		94	30-130			
Fluorene	0.146	0.000501	"	0.167		87.4	30-130			
Indeno(1,2,3-cd)pyrene	0.0923	0.000344	"	0.167		55.2	30-130			
Naphthalene	0.12	0.000467	"	0.167		71.8	30-130			
Pyrene	0.126	0.000387	"	0.167		75.4	30-130			
Chrysene	0.138	0.000256	"	0.167		82.6	30-130			
Benzo(b)fluoranthene	0.0867	0.000138	"	0.167		51.9	30-130			
Benzo(a)pyrene	0.144	0.000133	"	0.167		86.2	30-130			
Benzo(a)anthracene	0.14	0.000441	"	0.167		83.8	30-130			
Acenaphthene	0.136	0.000431	"	0.167		81.4	30-130			
2-Methylnaphthalene	0.127	0.000542	"	0.167		76	30-130			
1-Methylnaphthalene	0.126	0.00048	"	0.167		75.4	30-130			
Anthracene	0.155	0.000426	"	0.167		92.8	30-130			

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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 L558078 - 3550B

LCS (LCS-L558078)

Prepared: 06/11/2021 Analyzed: 06/14/2021

Benzo(k)fluoranthene	0.0906	0.000486	mg/Kg	0.167		54.2	30-130			
Surrogate: 4-Terphenyl-d14	96.3		"	0.333		96.3	33-122			
Surrogate: Nitrobenzene-d5	63.9		"	0.333		63.9	29-110			
Surrogate: 2-Fluorobiphenyl	91.2		"	0.333		91.2	33-115			

LRB (LRB-L558078)

Prepared: 06/11/2021 Analyzed: 06/14/2021

Pyrene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	66		"	0.333		66	29-110			
Surrogate: 4-Terphenyl-d14	75		"	0.333		75	33-122			
Surrogate: 2-Fluorobiphenyl	77.1		"	0.333		77.1	33-115			

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Notes and Definitions

U Sample is Non-Detect.

S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

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 at a wet weight basis.

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