



July 05, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonanza - State Pronghorn CPF 41-32 **Project Number - [none]**

Attached are your analytical results for Bonanza - State Pronghorn CPF 41-32 received by Origins Laboratory, Inc. June 14, 2022. This project is associated with Origins project number Y206356-01.

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: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-CS-08@8.5'	Y206356-01	Soil	June 14, 2022 12:50	06/14/2022 15:05
PW-CS-09@8.5'	Y206356-02	Soil	June 14, 2022 13:00	06/14/2022 15:05
PW-CS-FS-03@10'	Y206356-03	Soil	June 14, 2022 13:10	06/14/2022 15:05
PW-CS-FS-04@10'	Y206356-04	Soil	June 14, 2022 13:20	06/14/2022 15:05

Origins Laboratory, Inc.



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ORIGINS

LABORATORY, INC

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


Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

Origins Laboratory
 Sample Receipt Checklist
 Effective Date: 01/09/12
 Origins Work Order: Yoursay
 Client: Eagle/Bonanza
 Client Project ID: State Pronghorn
 Checklist Completed by: JTB
 Shipped Via: HD
 Date/Time completed: 6-15-22
 Airbill # N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 11-3 °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⁾	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄ / pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) ME Date/Time Reviewed 6/16/22

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: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-CS-08@8.5'
 6/14/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206356-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B2F1517	06/15/2022	06/16/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2F2001	06/20/2022	06/21/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	86.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F1617	06/16/2022	06/17/2022	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	97.8 %		70-130			"	"	"	
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-CS-08@8.5'
 6/14/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206356-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	92.0 %		70-130			B2F16 17	06/16/2022	06/17/2022	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	06/15/2022	06/16/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L622188	06/16/2022	06/20/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
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	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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Martin C Eckert III
 Project Number: [none]
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PW-CS-08@8.5'

6/14/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206356-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L622188	06/16/2022	06/20/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	48.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	70.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	6.60			pH Units	1	B2F1525	06/15/2022	06/16/2022	
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SAR by 20B Saturated Paste

SAR	0.117			SAR	1	B2F1521	06/15/2022	06/16/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.122		0.00500	mmhos/cm	1	B2F1525	06/15/2022	06/16/2022	
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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-CS-09@8.5'
 6/14/2022 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206356-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B2F1517	06/15/2022	06/16/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2F2001	06/20/2022	06/21/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	86.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F1617	06/16/2022	06/17/2022	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	92.9 %		70-130			"	"	"	
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Martin C Eckert III
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 Project: Bonanza - State Pronghorn CPF 41-32

PW-CS-09@8.5'
 6/14/2022 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206356-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	92.0 %		70-130			B2F16 17	06/16/2022	06/17/2022	
Surrogate: 4-Bromofluorobenzene	99.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	06/15/2022	06/16/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L622188	06/16/2022	06/20/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
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	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-CS-09@8.5'
 6/14/2022 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206356-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L622188	06/16/2022	06/20/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	48.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	62 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54 %		29-110			"	"	"	

pH in Soil by 9045D

pH	6.69			pH Units	1	B2F1525	06/15/2022	06/16/2022	
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SAR by 20B Saturated Paste

SAR	0.0975			SAR	1	B2F1521	06/15/2022	06/16/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.114		0.00500	mmhos/cm	1	B2F1525	06/15/2022	06/16/2022	
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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-CS-FS-03@10'
6/14/2022 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206356-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B2F1517	06/15/2022	06/16/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2F2001	06/20/2022	06/21/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	85.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F1617	06/16/2022	06/17/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.0 %		70-130			"	"	"	
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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-CS-FS-03@10'
6/14/2022 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206356-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	91.5 %		70-130			B2F16 17	06/16/2022	06/17/2022	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	06/15/2022	06/16/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L622188	06/16/2022	06/20/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
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	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-CS-FS-03@10'
6/14/2022 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206356-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L622188	06/16/2022	06/20/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	57.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	71.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	62.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	5.84			pH Units	1	B2F1525	06/15/2022	06/16/2022	
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SAR by 20B Saturated Paste

SAR	0.114			SAR	1	B2F1521	06/15/2022	06/16/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0964		0.00500	mmhos/cm	1	B2F1525	06/15/2022	06/16/2022	
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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-CS-FS-04@10'
 6/14/2022 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206356-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B2F1517	06/15/2022	06/16/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2F2001	06/20/2022	06/21/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 82.4% 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2F1617	06/16/2022	06/17/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 93.7% 70-130 " " "

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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-CS-FS-04@10'
6/14/2022 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206356-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	91.7 %		70-130			B2F16 17	06/16/2022	06/17/2022	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	06/15/2022	06/16/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L622188	06/16/2022	06/20/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
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	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-CS-FS-04@10'
6/14/2022 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206356-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L622188	06/16/2022	06/20/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	55.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	64.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	56.8 %		29-110			"	"	"	

pH in Soil by 9045D

pH	6.16			pH Units	1	B2F1525	06/15/2022	06/16/2022	
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SAR by 20B Saturated Paste

SAR	0.0986			SAR	1	B2F1521	06/15/2022	06/16/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0969		0.00500	mmhos/cm	1	B2F1525	06/15/2022	06/16/2022	
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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

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 B2F1617 - EPA 5030 (soil)

Blank (B2F1617-BLK1)

Prepared: 06/16/2022 Analyzed: 06/17/2022

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	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Jordan A. Bynon, Project Manager



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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

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 B2F1617 - EPA 5030 (soil)

LCS (B2F1617-BS1)

Prepared: 06/16/2022 Analyzed: 06/17/2022

1,2,4-Trimethylbenzene	0.119	0.00200	mg/kg	0.100		119	70-130			
1,3,5-Trimethylbenzene	0.118	0.00200	"	0.100		118	70-130			
Benzene	0.100	0.00200	"	0.100		100	70-130			
Ethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Naphthalene	0.118	0.0100	"	0.100		118	70-130			
Toluene	0.0992	0.00200	"	0.100		99.2	70-130			
o-Xylene	0.110	0.00200	"	0.100		110	70-130			
m,p-Xylene	0.224	0.00400	"	0.200		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, Inc.
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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

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 B2F1617 - EPA 5030 (soil)

Matrix Spike (B2F1617-MS1)

Source: Y206356-01

Prepared: 06/16/2022 Analyzed: 06/17/2022

1,2,4-Trimethylbenzene	0.126	0.00200	mg/kg	0.100	ND	126	70-130			
1,3,5-Trimethylbenzene	0.127	0.00200	"	0.100	ND	127	70-130			
Benzene	0.100	0.00200	"	0.100	ND	100	70-130			
Ethylbenzene	0.119	0.00200	"	0.100	ND	119	70-130			
Naphthalene	0.0946	0.0100	"	0.100	ND	94.6	70-130			
Toluene	0.105	0.00200	"	0.100	0.000640	104	70-130			
o-Xylene	0.118	0.00200	"	0.100	ND	118	70-130			
m,p-Xylene	0.244	0.00400	"	0.200	0.00134	121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		83.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Jordan A. Bynon, Project Manager



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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

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 B2F1617 - EPA 5030 (soil)

Matrix Spike Dup (B2F1617-MSD1)

Source: Y206356-01

Prepared: 06/16/2022 Analyzed: 06/17/2022

1,2,4-Trimethylbenzene	0.118	0.00200	mg/kg	0.100	ND	118	70-130	6.98	20	
1,3,5-Trimethylbenzene	0.118	0.00200	"	0.100	ND	118	70-130	7.50	20	
Benzene	0.0989	0.00200	"	0.100	ND	98.9	70-130	1.31	20	
Ethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130	5.53	20	
Naphthalene	0.104	0.0100	"	0.100	ND	104	70-130	9.35	20	
Toluene	0.0998	0.00200	"	0.100	0.000640	99.2	70-130	5.02	20	
o-Xylene	0.113	0.00200	"	0.100	ND	113	70-130	4.70	20	
m,p-Xylene	0.232	0.00400	"	0.200	0.00134	115	70-130	5.13	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Jordan A. Bynon, Project Manager



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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

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 B2F2001 - EPA 3580

Blank (B2F2001-BLK1)

Prepared: 06/20/2022 Analyzed: 06/21/2022

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		80.3	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

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 B2F2001 - EPA 3580

LCS (B2F2001-BS1)

Prepared: 06/20/2022 Analyzed: 06/21/2022

Diesel (C10-C28)	899	50.0	mg/kg	1000		89.9	70-130			
Residual Range Organics (C28-C40)	829	200	"	1000		82.9	70-130			
Surrogate: o-Terphenyl	41		"	49.8		82.1	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

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 B2F2001 - EPA 3580

Matrix Spike (B2F2001-MS1)

Source: Y206323-01

Prepared: 06/20/2022 Analyzed: 06/21/2022

Diesel (C10-C28)	907	50.0	mg/kg	1000	ND	90.7	70-130			
Residual Range Organics (C28-C40)	811	200	"	1000	ND	81.1	70-130			
Surrogate: o-Terphenyl	38		"	49.8		75.5	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

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 B2F2001 - EPA 3580

Matrix Spike Dup (B2F2001-MSD1)

Source: Y206323-01

Prepared: 06/20/2022 Analyzed: 06/21/2022

Diesel (C10-C28)	899	50.0	mg/kg	1000	ND	89.9	70-130	0.806	35	
Residual Range Organics (C28-C40)	780	200	"	1000	ND	78.0	70-130	3.93	35	
Surrogate: o-Terphenyl	37		"	49.8		74.8	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

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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Saturated Paste - 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 B2F1525 - NO PREP

Blank (B2F1525-BLK1)

Prepared: 06/15/2022 Analyzed: 06/16/2022

pH	0.00		pH Units							
Specific Conductance (EC)	0.00150	0.00500	mmhos/cm							

Duplicate (B2F1525-DUP1)

Source: Y206350-11

Prepared: 06/15/2022 Analyzed: 06/16/2022

pH	8.09		pH Units		8.21			1.47	25	
Specific Conductance (EC)	0.601	0.00500	mmhos/cm		0.610			1.45	25	

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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L622188 - 3550B

MSD (L 88320-MSD-L622188)

Source: Y206356-01

Prepared: 06/16/2022 Analyzed: 06/20/2022

Chrysene	0.105	0.000624	mg/Kg	0.166	<0.000624	63.2	30-130	9	30	
Dibenz(a,h)anthracene	0.0978	0.000614	"	0.166	<0.000614	58.9	30-130	17	30	
Fluoranthene	0.069	0.000394	"	0.166	<0.000394	41.5	30-130	34	30	
Fluorene	0.105	0.000286	"	0.166	<0.000286	63.2	30-130	28.5	30	
Indeno(1,2,3-cd)pyrene	0.0833	0.000627	"	0.166	<0.000627	50.1	30-130	19.2	30	
Pyrene	0.0685	0.000643	"	0.166	<0.000643	41.2	30-130	33.7	30	
Naphthalene	0.0841	0.000484	"	0.166	<0.000484	50.6	30-130	0.7	30	
1-Methylnaphthalene	0.115	0.000364	"	0.166	<0.000364	69.2	30-130	28.6	30	
Anthracene	0.105	0.000334	"	0.166	<0.000334	63.2	30-130	7.9	30	
Benzo(k)fluoranthene	0.0847	0.000437	"	0.166	<0.000437	51	30-130	9.3	30	
Benzo(a)pyrene	0.108	0.000468	"	0.166	<0.000468	65	30-130	9.6	30	
2-Methylnaphthalene	0.112	0.000645	"	0.166	<0.000645	67.4	30-130	31.1	30	
Acenaphthene	0.109	0.000304	"	0.166	<0.000304	65.6	30-130	0.9	30	
Benzo(a)anthracene	0.101	0.000493	"	0.166	<0.000493	60.8	30-130	7.6	30	
Benzo(b)fluoranthene	0.0669	0.000585	"	0.166	<0.000585	40.3	30-130	11.5	30	
Surrogate: Nitrobenzene-d5	58.7		"	0.332	197	58.7	29-110			
Surrogate: 2-Fluorobiphenyl	75.6		"	0.332	167	75.6	33-115			
Surrogate: 4-Terphenyl-d14	54.8		"	0.332	235	54.8	33-122			

MS (L 88320-MS-L622188)

Source: Y206356-01

Prepared: 06/16/2022 Analyzed: 06/20/2022

Benzo(b)fluoranthene	0.0751	0.000585	mg/Kg	0.167	<0.000585	44.9	30-130			
2-Methylnaphthalene	0.0818	0.000645	"	0.167	<0.000645	48.9	30-130			
Indeno(1,2,3-cd)pyrene	0.101	0.000627	"	0.167	<0.000627	60.4	30-130			
Benzo(k)fluoranthene	0.093	0.000437	"	0.167	<0.000437	55.6	30-130			
Chrysene	0.115	0.000624	"	0.167	<0.000624	68.8	30-130			
Benzo(a)pyrene	0.119	0.000468	"	0.167	<0.000468	71.2	30-130			
Dibenz(a,h)anthracene	0.116	0.000614	"	0.167	<0.000614	69.4	30-130			

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: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L622188 - 3550B

MS (L 88320-MS-L622188)

Source: Y206356-01

Prepared: 06/16/2022 Analyzed: 06/20/2022

Fluoranthene	0.0973	0.000394	mg/Kg	0.167	<0.000394	58.2	30-130			
Fluorene	0.14	0.000286	"	0.167	<0.000286	83.8	30-130			
Naphthalene	0.0835	0.000484	"	0.167	<0.000484	50	30-130			
Pyrene	0.0963	0.000643	"	0.167	<0.000643	57.6	30-130			
Anthracene	0.097	0.000334	"	0.167	<0.000334	58	30-130			
1-Methylnaphthalene	0.0862	0.000364	"	0.167	<0.000364	51.6	30-130			
Benzo(a)anthracene	0.109	0.000493	"	0.167	<0.000493	65.2	30-130			
Acenaphthene	0.11	0.000304	"	0.167	<0.000304	65.8	30-130			
Surrogate: Nitrobenzene-d5	61.8		"	0.333	197	61.8	29-110			
Surrogate: 4-Terphenyl-d14	79.5		"	0.333	235	79.5	33-122			
Surrogate: 2-Fluorobiphenyl	74.7		"	0.333	161	74.7	33-115			

LCS (LCS-L622188)

Prepared: 06/16/2022 Analyzed: 06/20/2022

Fluoranthene	0.101	0.000394	mg/Kg	0.167		60.4	30-130			
Benzo(a)pyrene	0.106	0.000468	"	0.167		63.4	30-130			
Pyrene	0.1	0.000643	"	0.167		59.8	30-130			
Naphthalene	0.0863	0.000484	"	0.167		51.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0969	0.000627	"	0.167		58	30-130			
Fluorene	0.082	0.000286	"	0.167		49.1	30-130			
Dibenz(a,h)anthracene	0.118	0.000614	"	0.167		70.6	30-130			
Chrysene	0.105	0.000624	"	0.167		62.8	30-130			
Benzo(b)fluoranthene	0.0794	0.000585	"	0.167		47.5	30-130			
1-Methylnaphthalene	0.124	0.000364	"	0.167		74.2	30-130			
Benzo(a)anthracene	0.0976	0.000493	"	0.167		58.4	30-130			
Anthracene	0.101	0.000334	"	0.167		60.4	30-130			
Acenaphthene	0.102	0.000304	"	0.167		61	30-130			
2-Methylnaphthalene	0.122	0.000645	"	0.167		73	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.



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

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L622188 - 3550B

LCS (LCS-L622188)

Prepared: 06/16/2022 Analyzed: 06/20/2022

Benzo(k)fluoranthene	0.0931	0.000437	mg/Kg	0.167		55.7	30-130			
Surrogate: Nitrobenzene-d5	77.4		"	0.333		77.4	29-110			
Surrogate: 4-Terphenyl-d14	98.4		"	0.333		98.4	33-122			
Surrogate: 2-Fluorobiphenyl	91.5		"	0.333		91.5	33-115			

LRB (LRB-L622188)

Prepared: 06/16/2022 Analyzed: 06/20/2022

Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	73.5		"	0.333		73.5	29-110			
Surrogate: 2-Fluorobiphenyl	58.5		"	0.333		58.5	33-115			
Surrogate: 4-Terphenyl-d14	75.3		"	0.333		75.3	33-122			

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Jordan A. Bynon, Project Manager

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - State Pronghorn CPF 41-32

Notes and Definitions

- U Sample is Non-Detect.
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.


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