



## **FIGURES**

**Figure 1: Initial Assessment Soil Analytical Map**

**Figure 2: Initial Assessment Polycyclic Aromatic Hydrocarbons Map**

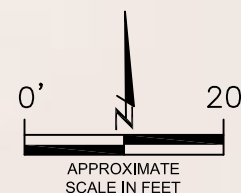
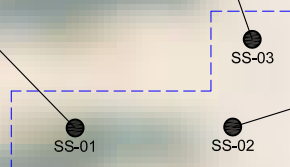
**Figure 3: Confirmation Soil Analytical Map (Inorganics)**

**Figure 4: Metals in Soil Map**

SS-01@0.5'  
06/02/21  
0.5'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = <0.200  
D = <50.0  
R = <200  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn = 0.5  
EC = 0.413  
SAR = 1.54  
pH = 7.38

SS-03@0.5'  
06/02/21  
0.5'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = <0.200  
D = <50.0  
R = <200  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn = **4.2**  
EC = 2.55  
SAR = **77.2**  
pH = **9.29**

SS-02@0.5'  
06/02/21  
0.5'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = <0.200  
D = <50.0  
R = <200  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn = 1.1  
EC = 2.47  
SAR = **8.98**  
pH = 8.19



## LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES  
SS-02 SUBMITTED FOR LABORATORY ANALYSIS

## PARAMETERS

SAMPLE LOCATION  
DATE  
DEPTH (FEET)  
B = BENZENE (mg/kg)  
T = TOLUENE (mg/kg)  
E = ETHYLBENZENE (mg/kg)  
X = TOTAL XYLENES (mg/kg)  
G = TPH-GRO (mg/kg)  
D = TPH-DRO (mg/kg)  
R = TPH-RRO (mg/kg)  
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)  
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)  
Brn = BORON (mg/L)  
EC = SPECIFIC CONDUCTANCE (mmhos/cm)  
SAR = SODIUM ADSORPTION RATIO  
pH = pH (pH UNITS)

mg/kg = MILLIGRAMS PER KILOGRAM  
mg/L = MILLIGRAMS PER LITER

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS  
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS  
TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

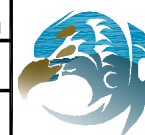
NOTE:  
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY REPORTING LIMITS

VALUES PRESENTED IN **BOLD** VALUES CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 VALUES

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

INITIAL ASSESSMENT SOIL ANALYTICAL MAP  
CRITTER CREEK 17SWSE  
SURFACE RELEASE  
40.916157 / -104.455348  
SW1/4 SE1/4 SEC.17 T11N R63W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 457085  
SPILL ID 480055

DATE:  
07/08/21  
DRAWN BY:  
AMN  
FIG.  
NO. 1

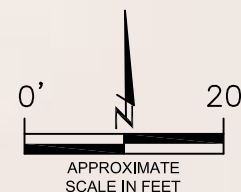
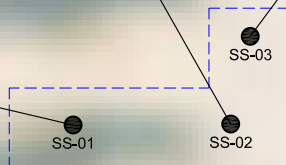


**EAGLE**  
ENVIRONMENTAL  
CONSULTING, INC.  
8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449

SS-02@0.5'  
06/02/21  
0.5'  
ND = <0.00067  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = ND  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = ND  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = ND

SS-01@0.5'  
06/02/21  
0.5'  
ND = <0.00067  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = ND  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = ND  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = ND

SS-03@0.5'  
06/02/21  
0.5'  
ND = <0.00067  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = ND  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = ND  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = ND



## LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

## PARAMETERS

SAMPLE LOCATION  
DATE SAMPLE COLLECTED  
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

NOTE:  
CONCENTRATIONS PRESENTED IN mg/kg

mg/kg = MILLIGRAMS PER KILOGRAM

NOTE:  
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT  
CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY  
DETECTION LIMITS

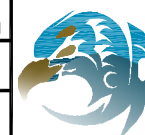
## INITIAL ASSESSMENT POLYCYCLIC AROMATIC HYDROCARBONS

MAP  
CRITTER CREEK 17SWSE  
SURFACE RELEASE  
40.916157 / -104.455348  
SW1/4 SE1/4 SEC.17 T11N R63W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 457085  
SPILL ID 480055

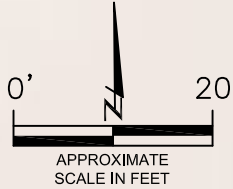
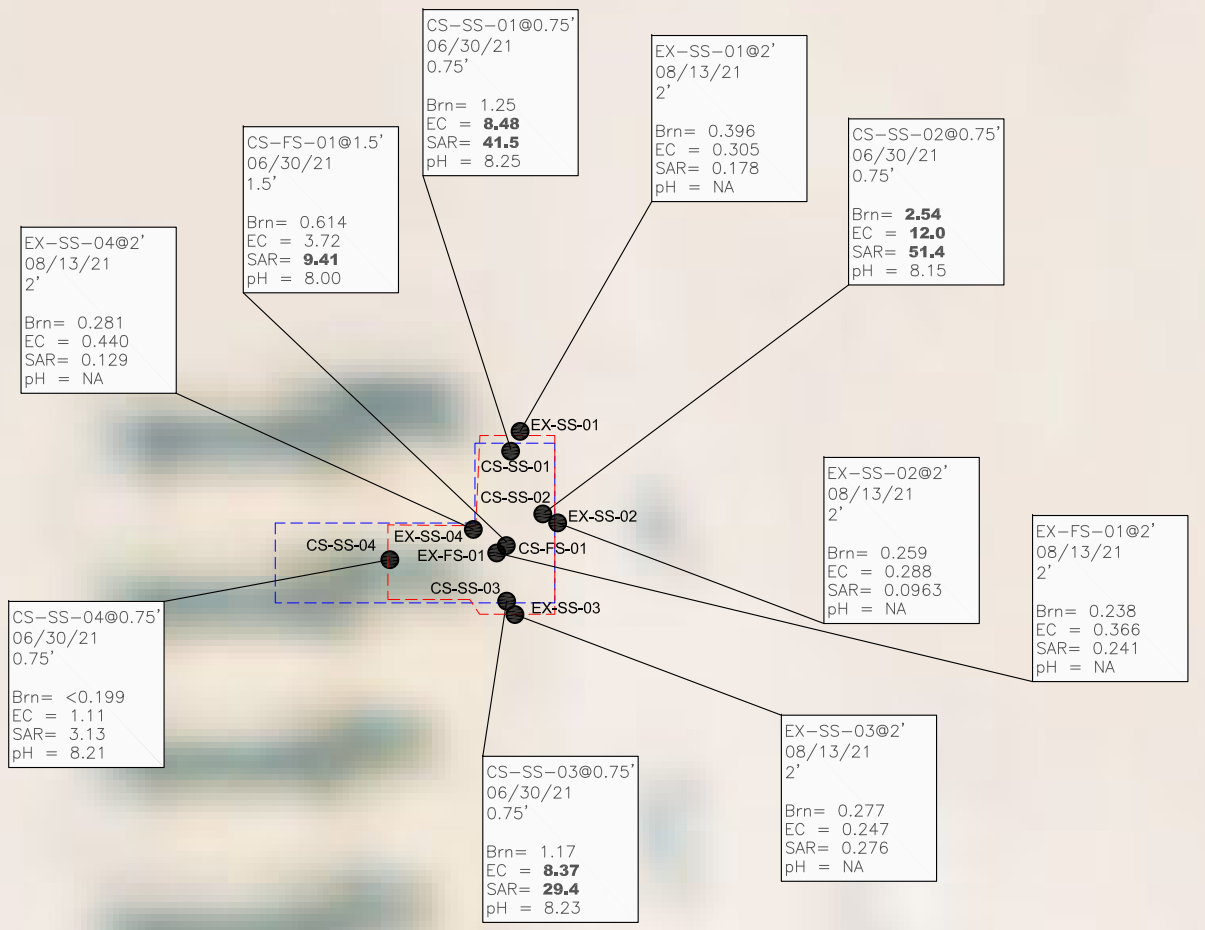
DATE:  
07/08/21

DRAWN BY:  
AMN

FIG.  
NO. 2



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LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- APPROXIMATE EXCAVATION BOUNDARIES

● APPROXIMATE LOCATION OF CONFIRMATION SOIL  
CS-SS-02 SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION  
DATE  
DEPTH (FEET)  
  
Brn= BORON (mg/L)  
EC = SPECIFIC CONDUCTANCE (mmhos/cm)  
SAR= SODIUM ADSORPTION RATIO  
pH = pH (pH UNITS)

mg/L = MILLIGRAMS PER LITER

NA - NOT ANALYZED

NOTE:  
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT  
CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY  
REPORTING LIMITS

VALUES PRESENTED IN **BOLD** VALUES CONTAIN  
CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 VALUES

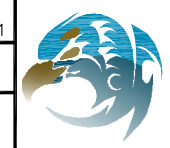
COGCC = COLORADO OIL AND GAS CONSERVATION  
COMMISSION

CONFIRMATION SOIL ANALYTICAL MAP  
(INORGANICS)

CRITTER CREEK 17SWSE  
SURFACE RELEASE  
40.916157 / -104.455348  
SW1/4 SE1/4 SEC.17 T11N R63W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 457085  
SPILL ID 480055

DATE:  
08/31/21  
DRAWN BY:  
AMN

FIG.  
NO. 3



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# LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- APPROXIMATE EXCAVATION BOUNDARIES

● APPROXIMATE LOCATION OF CONFIRMATION SOIL  
CS-SS-02 SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

## PARAMETERS

SAMPLE LOCATION  
DATE SAMPLE COLLECTED  
APPROXIMATE DEPTH  
Barium = (mg/kg)  
Cadmium = (mg/kg)  
Chromium (VI) = (mg/kg)  
Copper = (mg/kg)  
Lead = (mg/kg)  
Nickel = (mg/kg)  
Selenium = (mg/kg)  
Silver = (mg/kg)  
Zinc = (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

NOTE:  
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT  
CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY  
DETECTION LIMITS

VALUES PRESENTED IN **BOLD** VALUES CONTAIN  
CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 VALUES

\*VALUES EXCEED COGCC TABLE 915-1 "PROTECTION OF  
GROUNDWATER SOIL SCREENING LEVELS" FOR THAT  
COMPOUND.

\*\*ACHIEVABLE PRACTICAL QUANTITATIVE LIMITS FOR  
HEXAVALENT CHROMIUM (Cr VI) IN SOILS IS IN THE RANGE  
OF 0.1 TO 1 mg/kg.

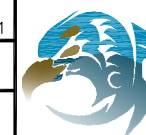
\*\*\*ARSENIC IS NATURALLY OCCURRING IN COLORADO. LOCAL  
"CLEAN-UP LEVEL" (1.38 mg/kg) IS 1.25\*BACKGROUND  
(1.11 mg/kg).

COGCC = COLORADO OIL AND GAS CONSERVATION  
COMMISSION

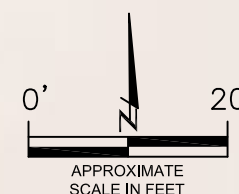
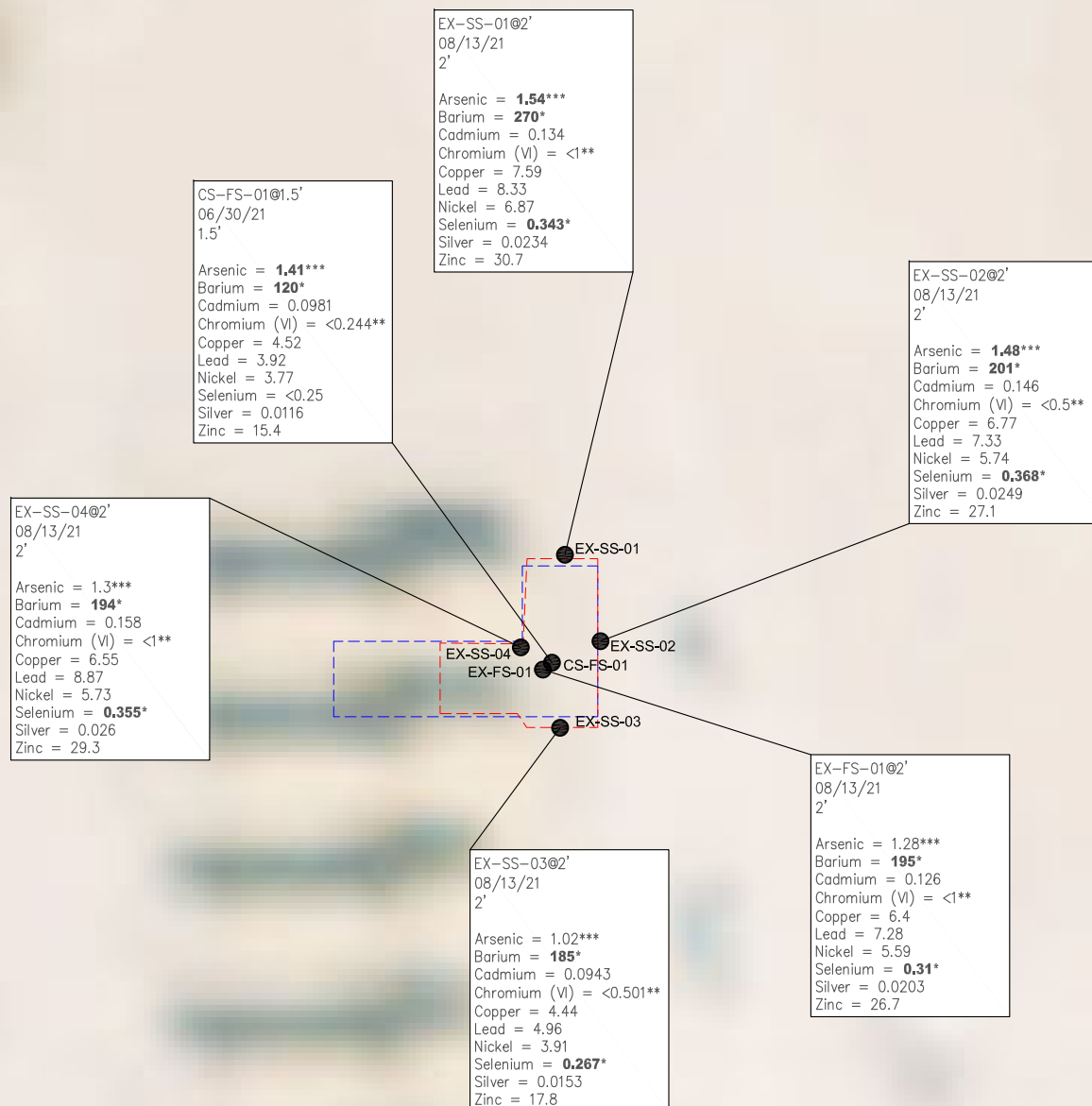
METALS IN SOIL MAP  
CRITTER CREEK 17SWSE  
SURFACE RELEASE  
40.916157 / -104.455348  
SW1/4 SE1/4 SEC.17 T11N R63W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 457085  
SPILL ID 480055

DATE:  
08/31/21  
DRAWN BY:  
AMN

FIG.  
NO. 4



**EAGLE**  
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## **ATTACHMENT A**

### **Laboratory Analytical Reports**



June 09, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Bonanza - Critter Creek 17SWSE    Project Number - 457085**

Attached are your analytical results for Bonanza - Critter Creek 17SWSE received by Origins Laboratory, Inc. June 02, 2021. This project is associated with Origins project number Y106071-01.

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: 457085  
Project: Bonanza - Critter Creek 17SWSE

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01@0.5'	Y106071-01	Soil	June 2, 2021 12:31	06/02/2021 15:45
SS-02@0.5'	Y106071-02	Soil	June 2, 2021 12:38	06/02/2021 15:45
SS-03@0.5'	Y106071-03	Soil	June 2, 2021 12:45	06/02/2021 15:45

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

*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: 457085  
Project: Bonanza - Critter Creek 17SWSE

**ORIGINS**  
LABORATORY, INC

www.originslaboratory.com

page 1 of 1

Client: Eagle Env. Consulting  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0479  
Email Address: Mike.Boyle@eagle-environmental.com

Project Manager: Martin Eckert III  
Project Name: Critter Creek 17 SWSE  
Project Number: —  
Samples Collected By: GEC

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix	Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>			
SS-01e0.5'	6/2/21	12:31	3	X			Soil	EC, SAR, pH =	1
SS-02e0.5'	↓	12:38	↓				↓	↓	2
SS-03e0.5'	↓	12:45	↓				↓	↓	3
									4
									5
									6
									7
									8
									9
									10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Bill To Luke Kelly	6/2/21	15:45	Received By	6/4/21	15:45

Turnaround Time:	Standard
Same Day <input type="checkbox"/>	24 Hr <input type="checkbox"/>
48 Hr <input type="checkbox"/>	72 Hr <input type="checkbox"/>
Standard <input checked="" type="checkbox"/>	

Temp Received: 0. Date Results Needed: 6/4/21

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

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

**Sample Receipt Checklist**

Origins Work Order: 4106071 Client: Eagle Env  
Client Project ID: Critter Creek 17 SWSE

Checklist Completed by: JD Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Date/time completed: 6/2/21 Airbill #: NA

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_  
Cooler Number/Temperature: 1 / 0.1 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
Thermometer ID: TC03

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"/>			
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <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"/>	
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 JD (Project Manager)

6-4-21  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jefe Pellegrini*

Jen Pellegrini For Noelle Doyle Mathis, President

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: 457085  
Project: Bonanza - Critter Creek 17SWSE

SS-01@0.5'  
6/2/2021 12:31:00PM

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

AAL, Inc.  
Y106071-01 (Soil)

## Boron (Sorbitol)

Boron	0.5		mg/L	1	[none]	06/04/2021	06/08/2021	
-------	-----	--	------	---	--------	------------	------------	--

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F0302	06/02/2021	06/05/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	73.5 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

## GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0301	06/03/2021	06/04/2021	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	106 %	70-130			"	"	"	
----------------------------------	-------	--------	--	--	---	---	---	--

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: 457085  
Project: Bonanza - Critter Creek 17SWSE

SS-01@0.5'

6/2/2021 12:31:00PM

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

Origins Laboratory, Inc.  
Y106071-01 (Soil)

## GBTEX+TMBs

Surrogate: Toluene-d8	103 %		70-130			B1F03 01	06/03/2021	06/04/2021	
Surrogate: 4-Bromofluorobenzene	118 %		70-130			"	"	"	

## Metals by Saturated Paste

Calcium	1.51			meq/L	1	[CALC]	06/04/2021	06/04/2021	
Magnesium	0.466			"	"	"	"	"	
Sodium	1.53			"	"	"	"	"	

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L557076	06/07/2021	06/07/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	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.

Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

SS-01@0.5'

6/2/2021 12:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y106071-01 (Soil)

### PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L557076	06/07/2021	06/07/2021
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	55.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	55 %	29-110	"	"	"

### pH in Soil by EPA 9045D

pH	7.38	pH Units	1	B1F0406	06/04/2021	06/04/2021
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### SAR by 20B Saturated Paste

SAR	1.54	SAR	1	B1F0408	06/04/2021	06/04/2021
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.413	0.00500	mmhos/cm	1	B1F0407	06/04/2021	06/04/2021
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

SS-02@0.5'

6/2/2021 12:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.  
Y106071-02 (Soil)

## Boron (Sorbitol)

Boron	1.1		mg/L	1	[none]	06/04/2021	06/08/2021	
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## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F0302	06/02/2021	06/05/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.8 %	50-150			"	"	"	
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## GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0301	06/03/2021	06/04/2021	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	136 %	70-130			"	"	"	S-04
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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

SS-02@0.5'

6/2/2021 12:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106071-02 (Soil)**

**GBTEX+TMBs**

Surrogate: Toluene-d8	111 %	70-130	B1F03 01	06/03/2021	06/04/2021
Surrogate: 4-Bromofluorobenzene	122 %	70-130	"	"	"

**Metals by Saturated Paste**

Calcium	4.34	meq/L	1	[CALC]	06/04/2021	06/04/2021
Magnesium	1.35	"	"	"	"	"
Sodium	15.2	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L557076	06/07/2021	06/07/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"

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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

SS-02@0.5'

6/2/2021 12:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y106071-02 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L557076	06/07/2021	06/07/2021
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	52 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	58.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	54.7 %	29-110	"	"	"

## pH in Soil by EPA 9045D

pH	8.19	pH Units	1	B1F0406	06/04/2021	06/04/2021
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## SAR by 20B Saturated Paste

SAR	8.98	SAR	1	B1F0408	06/04/2021	06/04/2021
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## Specific Conductance by Modified 9050A

Specific Conductance (EC)	2.47	0.00500	mmhos/cm	1	B1F0407	06/04/2021	06/04/2021
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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

SS-03@0.5'  
6/2/2021 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.  
Y106071-03 (Soil)

## Boron (Sorbitol)

Boron	4.2		mg/L	1	[none]	06/04/2021	06/08/2021	
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## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F0302	06/02/2021	06/05/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.5 %	50-150			"	"	"	
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## GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0301	06/03/2021	06/04/2021	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	121 %	70-130			"	"	"	
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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

SS-03@0.5'

6/2/2021 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106071-03 (Soil)**

**GBTEX+TMBs**

Surrogate: Toluene-d8	105 %	70-130	B1F03 01	06/03/2021	06/04/2021
Surrogate: 4-Bromofluorobenzene	121 %	70-130	"	"	"

**Metals by Saturated Paste**

Calcium	0.205	meq/L	1	[CALC]	06/04/2021	06/04/2021
Magnesium	0.0156	"	"	"	"	"
Sodium	25.6	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L557076	06/07/2021	06/07/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

SS-03@0.5'

6/2/2021 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.  
Y106071-03 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L557076	06/07/2021	06/07/2021
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	51.2 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	57.6 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	54.8 %		29-110			"	"	"

## pH in Soil by EPA 9045D

pH	9.29			pH Units	1	B1F0406	06/04/2021	06/04/2021
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## SAR by 20B Saturated Paste

SAR	77.2			SAR	1	B1F0408	06/04/2021	06/04/2021
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## Specific Conductance by Modified 9050A

Specific Conductance (EC)	2.55		0.00500	mmhos/cm	1	B1F0407	06/04/2021	06/04/2021
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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

**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 B1F0301 - EPA 5030 (soil)</b>										
<b>Blank (B1F0301-BLK1)</b>					Prepared: 06/03/2021 Analyzed: 06/03/2021					
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
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.3	70-130			

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

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

**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 B1F0301 - EPA 5030 (soil)**

**LCS (B1F0301-BS1)**

Prepared: 06/03/2021 Analyzed: 06/03/2021

1,2,4-Trimethylbenzene	0.0538	0.00200	mg/kg	0.0500		108	70-130			
Naphthalene	0.0480	0.0100	"	0.0500		96.1	70-130			
1,3,5-Trimethylbenzene	0.0544	0.00200	"	0.0500		109	70-130			
Benzene	0.0503	0.00200	"	0.0500		101	70-130			
Ethylbenzene	0.0534	0.00200	"	0.0500		107	70-130			
m,p-Xylene	0.106	0.00400	"	0.100		106	70-130			
o-Xylene	0.0489	0.00200	"	0.0500		97.8	70-130			
Toluene	0.0537	0.00200	"	0.0500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.2	70-130			

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

**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 B1F0301 - EPA 5030 (soil)**

Matrix Spike (B1F0301-MS1)		Source: Y106038-06			Prepared: 06/03/2021 Analyzed: 06/03/2021					
1,2,4-Trimethylbenzene	0.0550	0.00200	mg/kg	0.0500	ND	110	70-130			
Naphthalene	0.0494	0.0100	"	0.0500	ND	98.8	70-130			
1,3,5-Trimethylbenzene	0.0545	0.00200	"	0.0500	ND	109	70-130			
Benzene	0.0521	0.00200	"	0.0500	ND	104	70-130			
Ethylbenzene	0.0509	0.00200	"	0.0500	ND	102	70-130			
m,p-Xylene	0.103	0.00400	"	0.100	ND	103	70-130			
o-Xylene	0.0483	0.00200	"	0.0500	ND	96.5	70-130			
Toluene	0.0550	0.00200	"	0.0500	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.4	70-130			

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

**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 B1F0301 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B1F0301-MSD1)</b>		<b>Source: Y106038-06</b>			Prepared: 06/03/2021 Analyzed: 06/03/2021					
1,2,4-Trimethylbenzene	0.0603	0.00200	mg/kg	0.0500	ND	121	70-130	9.16	20	
Naphthalene	0.0562	0.0100	"	0.0500	ND	112	70-130	12.8	20	
1,3,5-Trimethylbenzene	0.0597	0.00200	"	0.0500	ND	119	70-130	9.03	20	
Benzene	0.0540	0.00200	"	0.0500	ND	108	70-130	3.62	20	
Ethylbenzene	0.0549	0.00200	"	0.0500	ND	110	70-130	7.52	20	
m,p-Xylene	0.110	0.00400	"	0.100	ND	110	70-130	7.16	20	
o-Xylene	0.0526	0.00200	"	0.0500	ND	105	70-130	8.61	20	
Toluene	0.0569	0.00200	"	0.0500	ND	114	70-130	3.36	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.5	70-130			

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

**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 B1F0302 - EPA 3550B</b>										
<b>Blank (B1F0302-BLK1)</b>					Prepared: 06/03/2021 Analyzed: 06/07/2021					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	37		"	50.0		73.9	50-150			

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

**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 B1F0302 - EPA 3550B

**LCS (B1F0302-BS1)**

Prepared: 06/03/2021 Analyzed: 06/05/2021

Diesel (C10-C28)	864	50.0	mg/kg	1000		86.4	70-130			
Residual Range Organics (C28-C40)	876	200	"	1000		87.6	70-130			
Surrogate: o-Terphenyl	51		"	50.0		101	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

**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 B1F0302 - EPA 3550B

Matrix Spike (B1F0302-MS1)		Source: Y106038-01			Prepared: 06/03/2021 Analyzed: 06/05/2021					
Diesel (C10-C28)	858	50.0	mg/kg	1000	ND	85.8	70-130			
Residual Range Organics (C28-C40)	917	200	"	1000	59.2	85.8	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.1	50-150			

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

**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 B1F0302 - EPA 3550B**

Matrix Spike Dup (B1F0302-MSD1)		Source: Y106038-01			Prepared: 06/03/2021 Analyzed: 06/05/2021					
Diesel (C10-C28)	885	50.0	mg/kg	1000	ND	88.5	70-130	3.19	35	
Residual Range Organics (C28-C40)	918	200	"	1000	59.2	85.8	70-130	0.0173	35	
Surrogate: o-Terphenyl	47		"	50.0		93.1	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

## 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 B1F0406 - NO PREP

<b>Duplicate (B1F0406-DUP1)</b>		<b>Source: Y106084-09</b>			Prepared: 06/04/2021 Analyzed: 06/04/2021					
pH	7.65		pH Units		7.88			2.96	25	

#### Batch B1F0407 - NO PREP

<b>Blank (B1F0407-BLK1)</b>		Prepared: 06/04/2021 Analyzed: 06/04/2021								
Specific Conductance (EC)	0.00250	0.00500	mmhos/cm							
<b>Duplicate (B1F0407-DUP1)</b>		<b>Source: Y106084-09</b>			Prepared: 06/04/2021 Analyzed: 06/04/2021					
Specific Conductance (EC)	1.08	0.00500	mmhos/cm		1.10			2.17	25	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

**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 L557076 - 3550B**

MSD (L 92581-MSD-L557076)		Source: 92581			Prepared: 06/07/2021 Analyzed: 06/07/2021					
Chrysene	0.108	0.000256	mg/Kg	0.163	<0.000256	66.2	30-130	6.2	30	
1-Methylnaphthalene	0.0963	0.00048	"	0.163	<0.000480	59	30-130	8.6	30	
2-Methylnaphthalene	0.0961	0.000542	"	0.163	<0.000542	58.9	30-130	7.8	30	
Acenaphthene	0.093	0.000431	"	0.163	<0.000431	57	30-130	8.2	30	
Anthracene	0.103	0.000426	"	0.163	<0.000426	63.1	30-130	8.3	30	
Benzo(a)anthracene	0.12	0.000441	"	0.163	<0.000441	73.6	30-130	4.8	30	
Pyrene	0.113	0.000387	"	0.163	<0.000387	69.3	30-130	5.1	30	
Naphthalene	0.0901	0.000467	"	0.163	<0.000467	55.2	30-130	7.1	30	
Indeno(1,2,3-cd)pyrene	0.103	0.000344	"	0.163	<0.000344	63.1	30-130	16	30	
Fluorene	0.102	0.000501	"	0.163	<0.000501	62.5	30-130	8.4	30	
Fluoranthene	0.116	0.000529	"	0.163	<0.000529	71.1	30-130	5	30	
Dibenz(a,h)anthracene	0.101	0.000279	"	0.163	<0.000279	61.9	30-130	14.6	30	
Benzo(b)fluoranthene	0.112	0.000138	"	0.163	<0.000138	68.7	30-130	14.1	30	
Benzo(k)fluoranthene	0.116	0.000486	"	0.163	<0.000486	71.1	30-130	7.1	30	
Benzo(a)pyrene	0.132	0.000133	"	0.163	<0.000133	80.9	30-130	2.2	30	
Surrogate: 2-Fluorobiphenyl	54.2		"	0.326	182	54.2	33-115			
Surrogate: 4-Terphenyl-d14	68		"	0.326	198	68	33-122			
Surrogate: Nitrobenzene-d5	59.2		"	0.326	154	59.2	29-110			

MS (L 92581-MS-L557076)		Source: 92581			Prepared: 06/07/2021 Analyzed: 06/07/2021					
Benzo(a)pyrene	0.135	0.000133	mg/Kg	0.167	<0.000133	80.8	30-130			
Chrysene	0.115	0.000256	"	0.167	<0.000256	68.8	30-130			
Pyrene	0.119	0.000387	"	0.167	<0.000387	71.2	30-130			
Naphthalene	0.0968	0.000467	"	0.167	<0.000467	57.9	30-130			
Indeno(1,2,3-cd)pyrene	0.121	0.000344	"	0.167	<0.000344	72.4	30-130			
Fluorene	0.111	0.000501	"	0.167	<0.000501	66.4	30-130			
Fluoranthene	0.122	0.000529	"	0.167	<0.000529	73	30-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

**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 L557076 - 3550B**

MS (L 92581-MS-L557076)		Source: 92581			Prepared: 06/07/2021 Analyzed: 06/07/2021					
Dibenz(a,h)anthracene	0.117	0.000279	mg/Kg	0.167	<0.000279	70	30-130			
Benzo(b)fluoranthene	0.129	0.000138	"	0.167	<0.000138	77.2	30-130			
Benzo(a)anthracene	0.126	0.000441	"	0.167	<0.000441	75.4	30-130			
Anthracene	0.112	0.000426	"	0.167	<0.000426	67	30-130			
Acenaphthene	0.101	0.000431	"	0.167	<0.000431	60.4	30-130			
2-Methylnaphthalene	0.104	0.000542	"	0.167	<0.000542	62.2	30-130			
Benzo(k)fluoranthene	0.108	0.000486	"	0.167	<0.000486	64.6	30-130			
1-Methylnaphthalene	0.105	0.00048	"	0.167	<0.000480	62.8	30-130			
Surrogate: Nitrobenzene-d5	64.5		"	0.333	154	64.5	29-110			
Surrogate: 2-Fluorobiphenyl	59.1		"	0.333	182	59.1	33-115			
Surrogate: 4-Terphenyl-d14	70.5		"	0.333	198	70.5	33-122			

**LCS (LCS-L557076)**

Prepared: 06/07/2021 Analyzed: 06/07/2021

Dibenz(a,h)anthracene	0.11	0.000279	mg/Kg	0.167		65.8	30-130
Fluoranthene	0.119	0.000529	"	0.167		71.2	30-130
Pyrene	0.115	0.000387	"	0.167		68.8	30-130
Fluorene	0.108	0.000501	"	0.167		64.6	30-130
Indeno(1,2,3-cd)pyrene	0.116	0.000344	"	0.167		69.4	30-130
Chrysene	0.109	0.000256	"	0.167		65.2	30-130
Naphthalene	0.0974	0.000467	"	0.167		58.3	30-130
Benzo(b)fluoranthene	0.118	0.000138	"	0.167		70.6	30-130
Benzo(a)pyrene	0.132	0.000133	"	0.167		79	30-130
Benzo(a)anthracene	0.124	0.000441	"	0.167		74.2	30-130
Acenaphthene	0.101	0.000431	"	0.167		60.4	30-130
2-Methylnaphthalene	0.104	0.000542	"	0.167		62.2	30-130
1-Methylnaphthalene	0.104	0.00048	"	0.167		62.2	30-130
Anthracene	0.11	0.000426	"	0.167		65.8	30-130

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

**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
<b>Batch L557076 - 3550B</b>										
<b>LCS (LCS-L557076)</b>					Prepared: 06/07/2021 Analyzed: 06/07/2021					
Benzo(k)fluoranthene	0.118	0.000486	mg/Kg	0.167		70.6	30-130			
Surrogate: Nitrobenzene-d5	66.3		"	0.333		66.3	29-110			
Surrogate: 4-Terphenyl-d14	71.1		"	0.333		71.1	33-122			
Surrogate: 2-Fluorobiphenyl	61.5		"	0.333		61.5	33-115			
<b>LRB (LRB-L557076)</b>					Prepared: 06/07/2021 Analyzed: 06/07/2021					
Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	54		"	0.333		54	29-110			
Surrogate: 4-Terphenyl-d14	75		"	0.333		75	33-122			
Surrogate: 2-Fluorobiphenyl	67.2		"	0.333		67.2	33-115			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

### 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.

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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Jen Pellegrini For Noelle Doyle Mathis, President





July 07, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Bonanza - Critter Creek 17SWSE    Project Number - 457085**

Attached are your analytical results for Bonanza - Critter Creek 17SWSE received by Origins Laboratory, Inc. June 30, 2021. This project is associated with Origins project number Y106753-01.

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: 457085  
Project: Bonanza - Critter Creek 17SWSE

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-SS-01@0.75'	Y106753-01	Soil	June 30, 2021 11:43	06/30/2021 14:48
CS-SS-02@0.75'	Y106753-02	Soil	June 30, 2021 11:44	06/30/2021 14:48
CS-SS-03@0.75'	Y106753-03	Soil	June 30, 2021 11:45	06/30/2021 14:48
CS-SS-04@0.75'	Y106753-04	Soil	June 30, 2021 11:46	06/30/2021 14:48
CS-FS-01@1.5'	Y106753-05	Soil	June 30, 2021 11:47	06/30/2021 14:48

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: 457085  
Project: Bonanza - Critter Creek 17SWSE

www.originslaboratory.com

**ORIGINS**  
LABORATORY, INC

4100763

page 1 of 1

Client: Eagle Env. Consulting, Inc.  
Address: 8000 W. 44th Ave  
Telephone Number: (303) 433-0479  
Email Address: Bill.P@eagle-env.com

Project Manager: Martin Eckert III  
Project Name: Critter Creek 17SWSE  
Project Number: -  
Samples Collected By: A.N.

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	Preservative				Matrix			Analysis			Sample Instructions	
			Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa	Other	EC - 7050A	SAE - 200		pH 7050B
CS-SS-01 @ 0.75'	6-30-21	1143	X						X			X	X	1
CS-SS-02 @ 0.75'		1144												2
CS-SS-03 @ 0.75'		1145												3
CS-SS-04 @ 0.75'		1146												4
CS-FS-01 @ 1.5'		1147												5
														6
														7
														8
														9
														10

Relinquished By: [Signature] Date: 6-30-21 Time: 1448

Relinquished By: [Signature] Date: 6-30-21 Time: 1448

Received By: [Signature] Date: 6/30/21 Time: 1448

Received By: [Signature] Date: 6/30/21 Time: 1448

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

Date Results Needed 8/2/21

Temp Received: 3, 3

Bill For Noelle Kelly

Origins Laboratory, Inc.

[Signature]

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

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

Origins Laboratory

Sample Receipt Checklist

Origins Work Order: Y10W793

Client: Eagle/Bonanza

Client Project ID: Critter Creek

Checklist Completed by: jm

Date/time completed: 6-30-21

Shipped Via: HD

Airbill #: N/A

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

Cooler Number/Temperature: 1 3.3 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 8°C <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <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"/>	
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 (Project Manager) jm

Date/Time Reviewed 7-1-21

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: 457085  
Project: Bonanza - Critter Creek 17SWSE

CS-SS-01@0.75'

6/30/2021 11:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y106753-01 (Soil)

### Boron (DTPA Sorbitol)

Boron	1.25	0.199	mg/L	1	B1F3022	06/30/2021	07/02/2021
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### Metals by Saturated Paste

Calcium	4.94	0.0499	meq/L	"	[CALC]	07/02/2021	07/02/2021
Magnesium	1.26	0.0823	"	"	"	"	"
Sodium	73.0	0.0435	"	"	"	"	"

### pH in Soil by EPA 9045D

pH	8.25		pH Units	1	B1G0122	07/01/2021	07/02/2021
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### SAR by 20B Saturated Paste

SAR	41.5		SAR	1	B1G0206	07/02/2021	07/02/2021
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	8.48	0.00500	mmhos/cm	1	B1G0124	07/01/2021	07/02/2021
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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: 457085  
Project: Bonanza - Critter Creek 17SWSE

CS-SS-02@0.75'

6/30/2021 11:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106753-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	2.54	0.199	mg/L	1	B1F3022	06/30/2021	07/02/2021
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**Metals by Saturated Paste**

Calcium	5.15	0.0499	meq/L	"	[CALC]	07/02/2021	07/02/2021
Magnesium	1.20	0.0823	"	"	"	"	"
Sodium	91.5	0.0435	"	"	"	"	"

**pH in Soil by EPA 9045D**

pH	8.15		pH Units	1	B1G0122	07/01/2021	07/02/2021
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**SAR by 20B Saturated Paste**

SAR	51.4		SAR	1	B1G0206	07/02/2021	07/02/2021
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	12.0	0.00500	mmhos/cm	1	B1G0124	07/01/2021	07/02/2021
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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: 457085  
Project: Bonanza - Critter Creek 17SWSE

CS-SS-03@0.75'

6/30/2021 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y106753-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.17	0.201	mg/L	1	B1F3022	06/30/2021	07/02/2021
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**Metals by Saturated Paste**

Calcium	5.28	0.0499	meq/L	"	[CALC]	07/02/2021	07/02/2021
Magnesium	1.46	0.0823	"	"	"	"	"
Sodium	53.9	0.0435	"	"	"	"	"

**pH in Soil by EPA 9045D**

pH	8.23		pH Units	1	B1G0122	07/01/2021	07/02/2021
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**SAR by 20B Saturated Paste**

SAR	29.4		SAR	1	B1G0206	07/02/2021	07/02/2021
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	8.37	0.00500	mmhos/cm	1	B1G0124	07/01/2021	07/02/2021
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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: 457085  
Project: Bonanza - Critter Creek 17SWSE

CS-SS-04@0.75'

6/30/2021 11:46:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y106753-04 (Soil)

## Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B1F3022	06/30/2021	07/02/2021
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## Metals by Saturated Paste

Calcium	2.96	0.0499	meq/L	"	[CALC]	07/02/2021	07/02/2021
Magnesium	0.865	0.0823	"	"	"	"	"
Sodium	4.33	0.0435	"	"	"	"	"

## pH in Soil by EPA 9045D

pH	8.21		pH Units	1	B1G0122	07/01/2021	07/02/2021
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## SAR by 20B Saturated Paste

SAR	3.13		SAR	1	B1G0206	07/02/2021	07/02/2021
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## Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.11	0.00500	mmhos/cm	1	B1G0124	07/01/2021	07/02/2021
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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: 457085  
Project: Bonanza - Critter Creek 17SWSE

CS-FS-01@1.5'

6/30/2021 11:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y106753-05 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.614	0.198	mg/L	1	B1F3022	06/30/2021	07/02/2021
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## Metals by Saturated Paste

Calcium	7.07	0.0499	meq/L	"	[CALC]	07/02/2021	07/02/2021
Magnesium	2.09	0.0823	"	"	"	"	"
Sodium	20.1	0.0435	"	"	"	"	"

## pH in Soil by EPA 9045D

pH	8.00		pH Units	1	B1G0122	07/01/2021	07/02/2021
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## SAR by 20B Saturated Paste

SAR	9.41		SAR	1	B1G0206	07/02/2021	07/02/2021
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## Specific Conductance by Modified 9050A

Specific Conductance (EC)	3.72	0.00500	mmhos/cm	1	B1G0124	07/01/2021	07/02/2021
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## Total Metals by 6020B

Arsenic	1.41	0.0855	0.25	mg/Kg	5	L561745	07/01/2021	07/06/2021
Barium	120	0.042	0.25	"	"	"	"	"
Cadmium	0.0981	0.0259	0.25	"	"	"	"	"
Copper	4.52	0.0806	0.25	"	"	"	"	"

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.

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

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

CS-FS-01@1.5'

6/30/2021 11:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y106753-05 (Soil)

### Total Metals by 6020B

Lead	3.92	0.031	0.25	mg/Kg	5	L561745	07/01/2021	07/06/2021	
Nickel	3.77	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0116	0.0067	0.25	"	"	"	"	"	J
Zinc	15.4	0.534	2.5	"	"	"	"	"	

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L562048	06/30/2021	07/06/2021	
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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: 457085  
Project: Bonanza - Critter Creek 17SWSE

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1G0122 - NO PREP</b>										
<b>Duplicate (B1G0122-DUP1)</b>		<b>Source: Y106750-01</b>			Prepared: 07/01/2021 Analyzed: 07/02/2021					
pH	8.13		pH Units		8.19			0.735	25	
<b>Batch B1G0124 - NO PREP</b>										
<b>Blank (B1G0124-BLK1)</b>		Prepared: 07/01/2021 Analyzed: 07/02/2021								
Specific Conductance (EC)	0.00250	0.00500	mmhos/cm							
<b>Duplicate (B1G0124-DUP1)</b>		<b>Source: Y106750-01</b>			Prepared: 07/01/2021 Analyzed: 07/02/2021					
Specific Conductance (EC)	3.29	0.00500	mmhos/cm		3.24			1.56	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.*

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

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch L561745 - 3050B

MSD (L 93792-MSD-L561745)		Source: 93792			Prepared: 07/01/2021 Analyzed: 07/06/2021					
Selenium	3.37	0.103	mg/Kg	4.89	0.195	69	75-125	2.3	80	*
Silver	0.505	0.0067	"	0.489	0.0753	103	75-125	3.6	80	
Nickel	7.25	0.0633	"	2.45	5.08	89	75-125	5.6	80	
Lead	12.8	0.031	"	2.45	9.83	121	75-125	3	80	
Copper	9.39	0.0806	"	2.45	8.02	56	75-125	9.2	80	*
Cadmium	0.629	0.0259	"	0.489	0.155	129	75-125	1.1	80	*
Barium	68.8	0.042	"	4.89	68.9	NR	75-125	7	80	*
Arsenic	2.47	0.0855	"	2.45	0.818	68	75-125	11	80	*
Zinc	55.6	0.534	"	24.5	35.5	82	75-125	14.3	80	

MS (L 93792-MS-L561745)		Source: 93792			Prepared: 07/01/2021 Analyzed: 07/06/2021					
Zinc	64.2	0.534	mg/Kg	24.8	35.5	116	75-125			
Arsenic	2.76	0.0855	"	2.48	0.818	78	75-125			
Barium	73.8	0.042	"	4.96	68.9	99	75-125			
Cadmium	0.622	0.0259	"	0.496	0.155	126	75-125			*
Copper	10.3	0.0806	"	2.48	8.02	92	75-125			
Lead	13.2	0.031	"	2.48	9.83	136	75-125			*
Nickel	7.67	0.0633	"	2.48	5.08	105	75-125			
Selenium	3.45	0.103	"	4.96	0.195	70	75-125			*
Silver	0.524	0.0067	"	0.496	0.0753	106	75-125			

LCS (LCS-L561745)		Prepared: 07/01/2021 Analyzed: 07/06/2021								
Cadmium	0.44	0.0259	mg/Kg	0.5		88	80-120			
Copper	2.29	0.0806	"	2.5		92	80-120			
Lead	2.48	0.031	"	2.5		99	80-120			
Nickel	2.33	0.0633	"	2.5		93	80-120			
Selenium	4.68	0.103	"	5		94	80-120			

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: 457085  
Project: Bonanza - Critter Creek 17SWSE

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L561745 - 3050B</b>										
<b>LCS (LCS-L561745)</b>					Prepared: 07/01/2021 Analyzed: 07/06/2021					
Silver	0.472	0.0067	mg/Kg	0.5		94	80-120			
Zinc	23	0.534	"	25		92	80-120			
Barium	4.83	0.042	"	5		97	80-120			
Arsenic	2.27	0.0855	"	2.5		91	80-120			
<b>LRB (LRB-L561745)</b>					Prepared: 07/01/2021 Analyzed: 07/06/2021					
Barium	ND	0.25	mg/Kg				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Copper	0.105	0.25	"				-			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.

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

Martin C Eckert III  
Project Number: 457085  
Project: Bonanza - Critter Creek 17SWSE

## 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 L562048 -</b>										
<b>DUP (L 94708-DUP)</b>	<b>Source: 94708</b>				Prepared: Analyzed: 07/06/2021					
Chromium, Hexavalent	ND	1.67	mg/Kg		94708	-		0	20	
<b>MS (L 94708-MS)</b>	<b>Source: 94708</b>				Prepared: Analyzed: 07/06/2021					
Chromium, Hexavalent	ND	1.68	mg/Kg	8.22	94708	0	75-125			*
<b>LCS (LCS)</b>					Prepared: Analyzed: 07/06/2021					
Chromium, Hexavalent	6.93	0.244	mg/Kg	8		87	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 07/06/2021					
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.

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: 457085

Project: Bonanza - Critter Creek 17SWSE

### Notes and Definitions

J Estimated Value. Analyte below reported quantitation limit.

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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.*



July 07, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Bonanza - Critter Creek 17 Pad

Project Number - [none]

Attached are your analytical results for Bonanza - Critter Creek 17 Pad received by Origins Laboratory, Inc. June 30, 2021. This project is associated with Origins project number Y106755-01.

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 - Critter Creek 17 Pad

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@1'	Y106755-01	Soil	June 30, 2021 11:10	06/30/2021 14:48

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 - Critter Creek 17 Pad

Origins Laboratory

## Sample Receipt Checklist

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

Origins Work Order: Y106705

Client: Eagle/Bonanza  
Client Project ID: Critter Creek

Checklist Completed by: jm

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

Date/Time completed: 6-30-21

Airbill #: V12A

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

Cooler Number/Temperature: 1 3.3 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

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 <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <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"/>	
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 (Project Manager) jm

Date/Time Reviewed 7-1-21

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 - Critter Creek 17 Pad

**Background-01@1'**  
**6/30/2021 11:10:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y106755-01 (Soil)**

**Total Metals by 6020B**

Arsenic	1.11	0.0855	0.25	mg/Kg	5	L561745	07/01/2021	07/06/2021	
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**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.245	0.504	mg/Kg	1	L562048	06/30/2021	07/06/2021	
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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 - Critter Creek 17 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L561745 - 3050B</b>										
<b>MSD (L 93792-MSD-L561745)</b>			<b>Source: 93792</b>			Prepared: 07/01/2021 Analyzed: 07/06/2021				
Arsenic	2.47	0.0855	mg/Kg	2.45	0.818	68	75-125	11	80	*
<b>MS (L 93792-MS-L561745)</b>			<b>Source: 93792</b>			Prepared: 07/01/2021 Analyzed: 07/06/2021				
Arsenic	2.76	0.0855	mg/Kg	2.48	0.818	78	75-125			
<b>LCS (LCS-L561745)</b>						Prepared: 07/01/2021 Analyzed: 07/06/2021				
Arsenic	2.27	0.0855	mg/Kg	2.5		91	80-120			
<b>LRB (LRB-L561745)</b>						Prepared: 07/01/2021 Analyzed: 07/06/2021				
Arsenic	ND	0.25	mg/Kg				-			

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 - Critter Creek 17 Pad

## 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 L562048 -</b>										
<b>DUP (L 94708-DUP)</b>	<b>Source: 94708</b>				Prepared: Analyzed: 07/06/2021					
Chromium, Hexavalent	ND	1.67	mg/Kg		<3.43	-		0	20	
<b>MS (L 94708-MS)</b>	<b>Source: 94708</b>				Prepared: Analyzed: 07/06/2021					
Chromium, Hexavalent	ND	1.68	mg/Kg	8.22	<1.68	0	75-125			*
<b>LCS (LCS)</b>					Prepared: Analyzed: 07/06/2021					
Chromium, Hexavalent	6.93	0.244	mg/Kg	8		87	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 07/06/2021					
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.

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Bonanza - Critter Creek 17 Pad

### Notes and Definitions

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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.*





August 23, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Bonanza - Critter Creek 17SWSE    Project Number - [none]**

Attached are your analytical results for Bonanza - Critter Creek 17SWSE received by Origins Laboratory, Inc. August 13, 2021. This project is associated with Origins project number Y108324-01.

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 - Critter Creek 17SWSE

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX-SS-01@2'	Y108324-01	Soil	August 13, 2021 12:10	08/13/2021 15:32
EX-SS-02@2'	Y108324-02	Soil	August 13, 2021 12:12	08/13/2021 15:32
EX-SS-03@2'	Y108324-03	Soil	August 13, 2021 12:14	08/13/2021 15:32
EX-SS-04@2'	Y108324-04	Soil	August 13, 2021 12:16	08/13/2021 15:32
EX-FS-01@2'	Y108324-05	Soil	August 13, 2021 12:18	08/13/2021 15:32

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 - Critter Creek 17SWSE

**ORIGINS**  
LABORATORY, INC

www.originslaboratory.com

125801K

page 1 of 1

Client: Eagle Env Consulting Inc.  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: (303) 433-0479  
Email Address: mce3@eagle-env.com

Project Manager: Martin Eckert III  
Project Name: Critter Creek 17SWSE  
Project Number: ---  
Samples Collected By: AN

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa		
EX-SS-01 e 2'	8-13-21	1210	2	X				X			EC-SAL - Standard	1
EX-SS-02 e 2'		1212									Rock Frag	2
EX-SS-03 e 2'		1214										3
EX-SS-04 e 2'		1216										4
EX-F3-01 e 2'		1218										5
												6
												7
												8
												9
												10

Relinquished By: Adm Date: 8-13-21 Time: 1532  
Relinquished By: Adm Date: 8-13-21 Time: 1532

Received By: Adm Date: 8/13/21 Time: 1532  
Received By: Adm Date: 8/13/21 Time: 1532

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

Date Results Needed 8/13/21

Temp Received 1.7

Bill to Luke Kelly

Origins Laboratory, Inc.

*Jordan A. Merrill*

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 - Critter Creek 17SWSE

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 1108324 Client: Eagle  
Client Project ID: Critter Creek 17SWSE

Checklist Completed by: SG Shipped Via: HD  
Date/time completed: 8/16/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_  
Cooler Number/Temperature: 1117 °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 <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 (Project Manager) [Signature]

Date/Time Reviewed 8/17/12

Origins Laboratory, Inc.

[Signature]

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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 - Critter Creek 17SWSE

EX-SS-01@2'

8/13/2021 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108324-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.396	0.198	mg/L	1	B1H1612	JMA	08/16/2021	08/17/2021
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**Metals by Saturated Paste**

Calcium	2.25	0.0499	meq/L	"	[CALC]	CJM	08/18/2021	08/19/2021
Magnesium	0.446	0.0823	"	"	"	CJM	"	"
Sodium	0.206	0.0435	"	"	"	CJM	"	"

**SAR by 20B Saturated Paste**

SAR	0.178		SAR	"	B1H1809	CJM	"	"
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.305	0.00500	mmhos/cm	1	B1H1808	TSH	08/18/2021	08/18/2021
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**Total Metals by 6020B**

Arsenic	1.54	0.25	mg/Kg	5	L569811		08/18/2021	08/22/2021
Barium	270	0.25	"	"	"		"	"
Cadmium	0.134	0.25	"	"	"		"	" J
Copper	7.59	0.25	"	"	"		"	"
Lead	8.33	0.25	"	"	"		"	"
Nickel	6.87	0.25	"	"	"		"	"
Selenium	0.343	0.25	"	"	"		"	"

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 - Critter Creek 17SWSE

EX-SS-01@2'

8/13/2021 12:10:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

**Waypoint Analytical, LLC.**  
**Y108324-01 (Soil)**

**Total Metals by 6020B**

Silver	0.0234	0.25	mg/Kg	5	L569811	08/18/2021	08/22/2021	J
Zinc	30.7	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	1	mg/Kg	2	L569889	08/13/2021	08/19/2021	
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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: [none]  
Project: Bonanza - Critter Creek 17SWSE

EX-SS-02@2'

8/13/2021 12:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108324-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.259	0.199	mg/L	1	B1H1612	JMA	08/16/2021	08/17/2021
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**Metals by Saturated Paste**

Calcium	2.64	0.0499	meq/L	"	[CALC]	CJM	08/18/2021	08/19/2021
Magnesium	0.601	0.0823	"	"	"	CJM	"	"
Sodium	0.123	0.0435	"	"	"	CJM	"	"

**SAR by 20B Saturated Paste**

SAR	0.0963		SAR	"	B1H1809	CJM	"	"
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.288	0.00500	mmhos/cm	1	B1H1808	TSH	08/18/2021	08/18/2021
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**Total Metals by 6020B**

Arsenic	1.48	0.25	mg/Kg	5	L569811		08/18/2021	08/22/2021
Barium	201	0.25	"	"	"		"	"
Cadmium	0.146	0.25	"	"	"		"	" J
Copper	6.77	0.25	"	"	"		"	"
Lead	7.33	0.25	"	"	"		"	"
Nickel	5.74	0.25	"	"	"		"	"
Selenium	0.368	0.25	"	"	"		"	"

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 - Critter Creek 17SWSE

EX-SS-02@2'

8/13/2021 12:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y108324-02 (Soil)

## Total Metals by 6020B

Silver	0.0249	0.25	mg/Kg	5	L569811	08/18/2021	08/22/2021	J
Zinc	27.1	2.5	"	"	"	"	"	

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.5	mg/Kg	1	L569889	08/13/2021	08/19/2021	
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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: [none]  
Project: Bonanza - Critter Creek 17SWSE

EX-SS-03@2'

8/13/2021 12:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108324-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.277	0.198	mg/L	1	B1H1612	JMA	08/16/2021	08/17/2021
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**Metals by Saturated Paste**

Calcium	1.72	0.0499	meq/L	"	[CALC]	CJM	08/18/2021	08/19/2021
Magnesium	0.375	0.0823	"	"	"	CJM	"	"
Sodium	0.282	0.0435	"	"	"	CJM	"	"

**SAR by 20B Saturated Paste**

SAR	0.276		SAR	"	B1H1809	CJM	"	"
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.247	0.00500	mmhos/cm	1	B1H1808	TSH	08/18/2021	08/18/2021
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**Total Metals by 6020B**

Arsenic	1.02	0.25	mg/Kg	5	L569811		08/18/2021	08/22/2021
Barium	185	0.25	"	"	"		"	"
Cadmium	0.0943	0.25	"	"	"		"	" J
Copper	4.44	0.25	"	"	"		"	"
Lead	4.96	0.25	"	"	"		"	"
Nickel	3.91	0.25	"	"	"		"	"
Selenium	0.267	0.25	"	"	"		"	"

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 - Critter Creek 17SWSE

EX-SS-03@2'

8/13/2021 12:14:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

Waypoint Analytical, LLC.

Y108324-03 (Soil)

### Total Metals by 6020B

Silver	0.0153	0.25	mg/Kg	5	L569811	08/18/2021	08/22/2021	J
Zinc	17.8	2.5	"	"	"	"	"	

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.501	mg/Kg	1	L569889	08/13/2021	08/19/2021	
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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: [none]  
Project: Bonanza - Critter Creek 17SWSE

EX-SS-04@2'

8/13/2021 12:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108324-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.281	0.201	mg/L	1	B1H1612	JMA	08/16/2021	08/17/2021
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**Metals by Saturated Paste**

Calcium	3.57	0.0499	meq/L	"	[CALC]	CJM	08/18/2021	08/19/2021
Magnesium	0.676	0.0823	"	"	"	CJM	"	"
Sodium	0.188	0.0435	"	"	"	CJM	"	"

**SAR by 20B Saturated Paste**

SAR	0.129		SAR	"	B1H1809	CJM	"	"
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.440	0.00500	mmhos/cm	1	B1H1808	TSH	08/18/2021	08/18/2021
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**Total Metals by 6020B**

Arsenic	1.3	0.25	mg/Kg	5	L569811		08/18/2021	08/22/2021
Barium	194	0.25	"	"	"		"	"
Cadmium	0.158	0.25	"	"	"		"	" J
Copper	6.55	0.25	"	"	"		"	"
Lead	8.87	0.25	"	"	"		"	"
Nickel	5.73	0.25	"	"	"		"	"
Selenium	0.355	0.25	"	"	"		"	"

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 - Critter Creek 17SWSE

EX-SS-04@2'

8/13/2021 12:16:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

**Waypoint Analytical, LLC.**  
**Y108324-04 (Soil)**

**Total Metals by 6020B**

Silver	0.026	0.25	mg/Kg	5	L569811	08/18/2021	08/22/2021	J
Zinc	29.3	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	1	mg/Kg	2	L569889	08/13/2021	08/19/2021	
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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: [none]  
Project: Bonanza - Critter Creek 17SWSE

EX-FS-01@2'

8/13/2021 12:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108324-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.238	0.199	mg/L	1	B1H1612	JMA	08/16/2021	08/17/2021
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**Metals by Saturated Paste**

Calcium	2.96	0.0499	meq/L	"	[CALC]	CJM	08/18/2021	08/19/2021
Magnesium	0.585	0.0823	"	"	"	CJM	"	"
Sodium	0.321	0.0435	"	"	"	CJM	"	"

**SAR by 20B Saturated Paste**

SAR	0.241		SAR	"	B1H1809	CJM	"	"
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.366	0.00500	mmhos/cm	1	B1H1808	TSH	08/18/2021	08/18/2021
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**Total Metals by 6020B**

Arsenic	1.28	0.25	mg/Kg	5	L569811		08/18/2021	08/22/2021
Barium	195	0.25	"	"	"		"	"
Cadmium	0.126	0.25	"	"	"		"	" J
Copper	6.4	0.25	"	"	"		"	"
Lead	7.28	0.25	"	"	"		"	"
Nickel	5.59	0.25	"	"	"		"	"
Selenium	0.31	0.25	"	"	"		"	"

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 - Critter Creek 17SWSE

EX-FS-01@2'

8/13/2021 12:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y108324-05 (Soil)**

**Total Metals by 6020B**

Silver	0.0203	0.25	mg/Kg	5	L569811	08/18/2021	08/22/2021	J
Zinc	26.7	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	1	mg/Kg	2	L569889	08/13/2021	08/19/2021	
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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: [none]  
Project: Bonanza - Critter Creek 17SWSE

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1H1808 - NO PREP</b>										
<b>Blank (B1H1808-BLK1)</b>					Prepared: 08/18/2021 Analyzed: 08/18/2021					
Specific Conductance (EC)	0.00260	0.00500	mmhos/cm							
<b>Duplicate (B1H1808-DUP1)</b>					<b>Source: Y108345-04</b> Prepared: 08/18/2021 Analyzed: 08/18/2021					
Specific Conductance (EC)	2.24	0.00500	mmhos/cm		2.56			13.6	25	

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 - Critter Creek 17SWSE

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch L569811 - 3050B

MSD (L 92295-MSD-L569811)		Source: 92295			Prepared: 08/18/2021 Analyzed: 08/22/2021					
Silver	0.493	0.0067	mg/Kg	0.484	0.0285	102	75-125	2.2	80	
Zinc	57.6	0.534	"	24.2	28.9	119	75-125	8.6	80	
Selenium	3.92	0.103	"	4.84	0.277	75	75-125	4	80	
Nickel	8.58	0.0633	"	2.42	6.34	93	75-125	1.8	80	
Lead	9.65	0.031	"	2.42	8.08	65	75-125	4.5	80	*
Copper	7.71	0.0806	"	2.42	5.17	105	75-125	8	80	
Cadmium	0.558	0.0259	"	0.484	0.0902	115	75-125	2.3	80	
Barium	75.1	0.042	"	4.84	73.4	35	75-125	1.7	80	*
Arsenic	4.47	0.0855	"	2.42	2.33	89	75-125	3.1	80	

MS (L 92295-MS-L569811)		Source: 92295			Prepared: 08/18/2021 Analyzed: 08/22/2021					
Zinc	52.8	0.534	mg/Kg	24	28.9	100	75-125			
Barium	76.4	0.042	"	4.8	73.4	63	75-125			*
Cadmium	0.545	0.0259	"	0.48	0.0902	114	75-125			
Copper	7.11	0.0806	"	2.4	5.17	81	75-125			
Lead	9.22	0.031	"	2.4	8.08	48	75-125			*
Nickel	8.42	0.0633	"	2.4	6.34	87	75-125			
Selenium	4.08	0.103	"	4.8	0.277	79	75-125			
Silver	0.504	0.0067	"	0.48	0.0285	105	75-125			
Arsenic	4.33	0.0855	"	2.4	2.33	83	75-125			

LCS (LCS-L569811)		Prepared: 08/18/2021 Analyzed: 08/22/2021								
Barium	5.3	0.042	mg/Kg	5		106	80-120			
Cadmium	0.507	0.0259	"	0.5		101	80-120			
Copper	2.68	0.0806	"	2.5		107	80-120			
Lead	2.5	0.031	"	2.5		100	80-120			
Nickel	2.5	0.0633	"	2.5		100	80-120			

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 - Critter Creek 17SWSE

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch L569811 - 3050B

#### LCS (LCS-L569811)

Prepared: 08/18/2021 Analyzed: 08/22/2021

Selenium	5.07	0.103	mg/Kg	5	101	80-120
Silver	0.5	0.0067	"	0.5	100	80-120
Zinc	24.7	0.534	"	25	99	80-120
Arsenic	2.41	0.0855	"	2.5	96	80-120

#### LRB (LRB-L569811)

Prepared: 08/18/2021 Analyzed: 08/22/2021

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

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.*



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

Martin C Eckert III  
Project Number: [none]  
Project: Bonanza - Critter Creek 17SWSE

## 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 L569889 -										
<b>DUP (L 92202-DUP)</b>	<b>Source: Y108324-01</b>				Prepared: Analyzed: 08/19/2021					
Chromium, Hexavalent	ND	0.488	mg/Kg		92202	-		0	20	
<b>MS (L 92202-MS)</b>	<b>Source: Y108324-01</b>				Prepared: Analyzed: 08/19/2021					
Chromium, Hexavalent	0.767	0.488	mg/Kg	8	92202	0	75-125			*
<b>LCS (LCS)</b>					Prepared: Analyzed: 08/19/2021					
Chromium, Hexavalent	7.11	0.244	mg/Kg	8		89	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 08/19/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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### Notes and Definitions

J Estimated Value. Analyte below reported quantitation limit.

\* QC Failure

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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