



## **FIGURES**

**Figure 1: Soil Analytical Map**

**Figure 2: Polycyclic Aromatic Hydrocarbons Map**

# LEGEND

--- APPROXIMATE EXCAVATION/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)

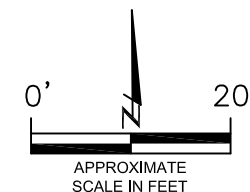
mg/kg = MILLIGRAMS PER KILOGRAM  
mg/L = MILLIGRAMS PER LITER

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



SOIL ANALYTICAL MAP  
RANDALL CREEK #03-30H  
SURFACE RELEASE  
40.374725 / -104.355181  
SE1/4 SE1/4 SEC301 T12N R62W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-31339  
SPILL ID 479952

DATE:  
06/02/21

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-01@4'  
05/25/21  
4'  
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= 1.2  
EC = 1.54  
SAR= 3.21  
pH = 7.91

SS-02@4'  
05/25/21  
4'  
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= 0.1  
EC = 0.632  
SAR= 2.05  
pH = 7.31

FS-01@5.5'  
05/25/21  
5.5'  
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= 0.1  
EC = 0.332  
SAR= 0.690  
pH = 7.41

SS-01  
SS-02  
SS-03  
SS-04  
FS-01

SS-03@3.5'  
05/25/21  
3.5'  
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= 0.1  
EC = 0.345  
SAR= 0.660  
pH = 7.85

SS-04@4'  
05/25/21  
4'  
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= 0.1  
EC = 0.271  
SAR= 0.572  
pH = 7.56



AERIAL PROXIMITY - NOT TO SCALE

# LEGEND

--- APPROXIMATE EXCAVATION/ASSESSMENT BOUNDARIES

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

## PARAMETERS

SAMPLE LOCATION  
DATE SAMPLE COLLECTED  
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

NOTE:  
CONCENTRATIONS PRESENTED IN mg/kg

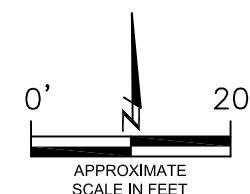
mg/kg = MILLIGRAMS PER KILOGRAM

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

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1  
REGULATORY LIMITS FOR THAT COMPOUND

VALUES PRESENTED WITH AN ASTERISK (\*) EXCEED COGCC  
TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING  
LEVELS FOR THAT COMPOUND.

COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION

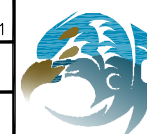


POLYCYCLIC AROMATIC HYDROCARBONS MAP  
RSU ANSCHUTZ FED 4-62-11\_12 SE10  
PRODUCED WATER RELEASE  
40.323751 / -104.302252  
NE1/4 SE1/4 SEC.10 T4N R62W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 454976  
SPILL ID 480041

DATE:  
06/02/21

DRAWN BY:  
AMN

FIG.  
NO. 2



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

FS-01@5.5'  
05/25/21  
5.5'

1-Methylnaphthalene = 0.00184  
2-Methylnaphthalene = 0.0028  
Acenaphthene = <0.00067  
Anthracene = <0.00067  
Benzo(a)anthracene = 0.00127  
Benzo(a)pyrene = 0.00146  
Benzo(b)fluoranthene = 0.00164  
Benzo(k)fluoranthene = 0.000638  
Chrysene = 0.00217  
Dibenzo(a,h)anthracene = <0.00067  
Fluoranthene = 0.0019  
Fluorene = <0.00067  
Indeno(1,2,3-CD)pyrene = 0.00091  
Naphthalene = <0.00067  
Pyrene = 0.00233

SS-01@4'  
05/25/21  
4'

1-Methylnaphthalene = 0.00072  
2-Methylnaphthalene = <0.00067  
Acenaphthene = <0.00067  
Anthracene = <0.00067  
Benzo(a)anthracene = <0.00067  
Benzo(a)pyrene = 0.000241  
Benzo(b)fluoranthene = 0.000375  
Benzo(k)fluoranthene = <0.00067  
Chrysene = <0.00067  
Dibenzo(a,h)anthracene = <0.00067  
Fluoranthene = <0.00067  
Fluorene = <0.00067  
Indeno(1,2,3-CD)pyrene = 0.000376  
Naphthalene = <0.00067  
Pyrene = <0.00067

SS-02@4'  
05/25/21  
4'

1-Methylnaphthalene = <0.00067  
2-Methylnaphthalene = <0.00067  
Acenaphthene = <0.00067  
Anthracene = <0.00067  
Benzo(a)anthracene = <0.00067  
Benzo(a)pyrene = 0.000418  
Benzo(b)fluoranthene = 0.000638  
Benzo(k)fluoranthene = <0.00067  
Chrysene = 0.00164  
Dibenzo(a,h)anthracene = <0.00067  
Fluoranthene = <0.00067  
Fluorene = <0.00067  
Indeno(1,2,3-CD)pyrene = 0.000398  
Naphthalene = <0.00067  
Pyrene = 0.000864

SS-01  
SS-02  
SS-03  
SS-04  
FS-01

SS-03@3.5'  
05/25/21  
3.5'

1-Methylnaphthalene = 0.000664  
2-Methylnaphthalene = 0.000573  
Acenaphthene = <0.00067  
Anthracene = <0.00067  
Benzo(a)anthracene = 0.000489  
Benzo(a)pyrene = 0.000684  
Benzo(b)fluoranthene = 0.000715  
Benzo(k)fluoranthene = 0.000571  
Chrysene = 0.000448  
Dibenzo(a,h)anthracene = <0.00067  
Fluoranthene = 0.000788  
Fluorene = <0.00067  
Indeno(1,2,3-CD)pyrene = 0.00049  
Naphthalene = <0.00067  
Pyrene = 0.000931

SS-04@4'  
05/25/21  
4'

1-Methylnaphthalene = <0.00067  
2-Methylnaphthalene = <0.00067  
Acenaphthene = <0.00067  
Anthracene = <0.00067  
Benzo(a)anthracene = <0.00067  
Benzo(a)pyrene = 0.00274  
Benzo(b)fluoranthene = 0.000519  
Benzo(k)fluoranthene = <0.00067  
Chrysene = 0.00199  
Dibenzo(a,h)anthracene = <0.00067  
Fluoranthene = <0.00067  
Fluorene = <0.00067  
Indeno(1,2,3-CD)pyrene = <0.00067  
Naphthalene = <0.00067  
Pyrene = 0.00106



AERIAL PROXIMITY - NOT TO SCALE



## **TABLES**

**Table 1: Photoionization Detector Reading Summary**

**Table 2: Soil Analytical Results Summary**

**Table 3: Polycyclic Aromatic Hydrocarbons Analytical Results Summary**

**TABLE 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**RSU ANSCHUTZ FED 4-62-11\_12 SE10**  
**RELEASE ASSESSMENT**  
**40.323751 / -104.302252**  
**NE1/4 SE1/4 SEC.10 T4N R62W 6PM**  
**WELD COUNTY, COLORADO**  
**LOCATION ID 454976**  
**SPILL ID 480041**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
SS-01 @ 4' (40.323754 / -104.302285)	05/25/21	4	13.4	Y
SS-02 @ 4' (40.323751 / -104.302240)	05/25/21	4	4.3	Y
SS-03 @ 3.5' (40.323742 / -104.302251)	05/25/21	3.5	9.7	Y
SS-04 @ 4' (40.323745 / -104.302266)	05/25/21	4	8.8	Y
FS-01 @ 5.5' (40.323748 / -104.302253)	05/25/21	5.5	41.2	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID - photoionization detector				

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
RSU ANSCHUTZ FED 4-62-11\_12 SE10  
RELEASE ASSESSMENT  
40.323751 / -104.302252  
NE1/4 SE1/4 SEC.10 T4N R62W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 454976  
SPILL ID 480041

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4- Trimethylbenzene (mg/kg)	1,3,5- Trimethylbenzene (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
<b>COGCC Table 915-1 Residential Screening Levels</b>				<b>1.2</b>	<b>490</b>	<b>5.8</b>	<b>58</b>	<b>500</b>			<b>30</b>	<b>27</b>	<b>&lt;4</b>	<b>&lt;6</b>	<b>6-8.3</b>	<b>2</b>
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</b>				<b>0.0026</b>	<b>0.69</b>	<b>0.78</b>	<b>9.9</b>	<b>--</b>			<b>0.0081</b>	<b>0.0087</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
SS-01 @ 4' (40.323754 / -104.302285)	05/25/21	4	13.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<50.0	<200	<0.00200	<0.00200	1.2	1.54	7.91	3.21
SS-02 @ 4' (40.323751 / -104.302240)	05/25/21	4	4.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<50.0	<200	<0.00200	<0.00200	0.1	0.632	7.31	2.05
SS-03 @ 3.5' (40.323742 / -104.302251)	05/25/21	3.5	9.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<50.0	<200	<0.00200	<0.00200	0.1	0.345	7.85	0.660
SS-04 @ 4' (40.323745 / -104.302266)	05/25/21	4	8.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<50.0	<200	<0.00200	<0.00200	0.1	0.271	7.56	0.572
FS-01 @ 5.5' (40.323748 / -104.302253)	05/25/21	5.5	41.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<50.0	<200	<0.00200	<0.00200	0.1	0.332	7.41	0.690
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram      TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics mmhos/cm = millimhos per centimeter      TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics SAR = Sodium Adsorption Ratio      TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics ppm-v = parts per million by volume Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit. Note: Values presented in <b>BOLD</b> contained concentrations exceeding applicable COGCC Table 915-1 Regulatory Limits Note: Values presented in <i>ITALIC/CS+*</i> contained concentrations exceeding COGCC Table 915-1 Protection of Groundwater Soil Screening Levels																

TABLE 3  
PAH ANALYTICAL RESULTS SUMMARY  
RSU ANSCHUTZ FED 4-62-11\_12 SE10  
RELEASE ASSESSMENT  
40.323751 / -104.302252  
NE1/4 SE1/4 SEC.10 T4N R62W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 454976  
SPILL ID 480041

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	1-Methyl- naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)- anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)- fluoranthene (mg/kg)	Benzo(k)- fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)- anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Ideno(1,2,3-cd)- pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
<b>COGCC Table 915-1 Residential Screening Levels</b>			<b>18</b>	<b>24</b>	<b>360</b>	<b>1,800</b>	<b>1.1</b>	<b>0.11</b>	<b>1.1</b>	<b>11</b>	<b>110</b>	<b>0.11</b>	<b>240</b>	<b>240</b>	<b>1.1</b>	<b>2</b>	<b>180</b>
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</b>			<b>0.006</b>	<b>0.019</b>	<b>0.55</b>	<b>5.8</b>	<b>0.011</b>	<b>0.24</b>	<b>0.3</b>	<b>2.9</b>	<b>9</b>	<b>0.096</b>	<b>8.9</b>	<b>0.54</b>	<b>0.98</b>	<b>0.0038</b>	<b>1.3</b>
SS-01 @ 4' (40.323754 / -104.302285)	05/25/21	4	0.00072	<0.00067	<0.00067	<0.00067	<0.00067	0.000241	0.000375	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000376	<0.00067	<0.00067
SS-02 @ 4' (40.323751 / -104.302240)	05/25/21	4	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000418	0.000638	<0.00067	0.00164	<0.00067	<0.00067	<0.00067	0.000398	<0.00067	0.000864
SS-03 @ 3.5' (40.323742 / -104.302251)	05/25/21	3.5	0.000664	0.000573	<0.00067	<0.00067	0.000489	0.000684	0.000715	0.000571	0.000448	<0.00067	0.000788	<0.00067	0.00049	<0.00067	0.000931
SS-04 @ 4' (40.323745 / -104.302266)	05/25/21	4	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000274	0.000519	<0.00067	0.00199	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00106
FS-01 @ 5.5' (40.323748 / -104.302253)	05/25/21	5.5	0.00184	0.0028	<0.00067	<0.00067	0.00127	0.00146	0.00164	0.000638	0.00217	<0.00067	0.0019	<0.00067	0.00091	<0.00067	0.00233
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit. Note: Values presented in <b>BOLD</b> contained concentrations exceeding applicable COGCC Table 915-1 Regulatory Limits Note: Values presented in <i>ITALICS</i> +* contained concentrations exceeding COGCC Table 915-1 Protection of Groundwater Soil Screening Levels																	



## **ATTACHMENT A**

### **Photo Log**



RSU Anschutz Fed 4-62-11\_12 SE10

Location ID 454976

Spill ID 480041

Produced Water Release

May 2021



**EAGLE**  
ENVIRONMENTAL  
CONSULTING, INC.

8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449



# Produced Water Release – 5/20/21



Produced water  
released inside  
separator dog house

Unknown  
quantity/cause

Soil removal was  
coordinated –  
confirmation soil  
samples pending  
collection/analysis





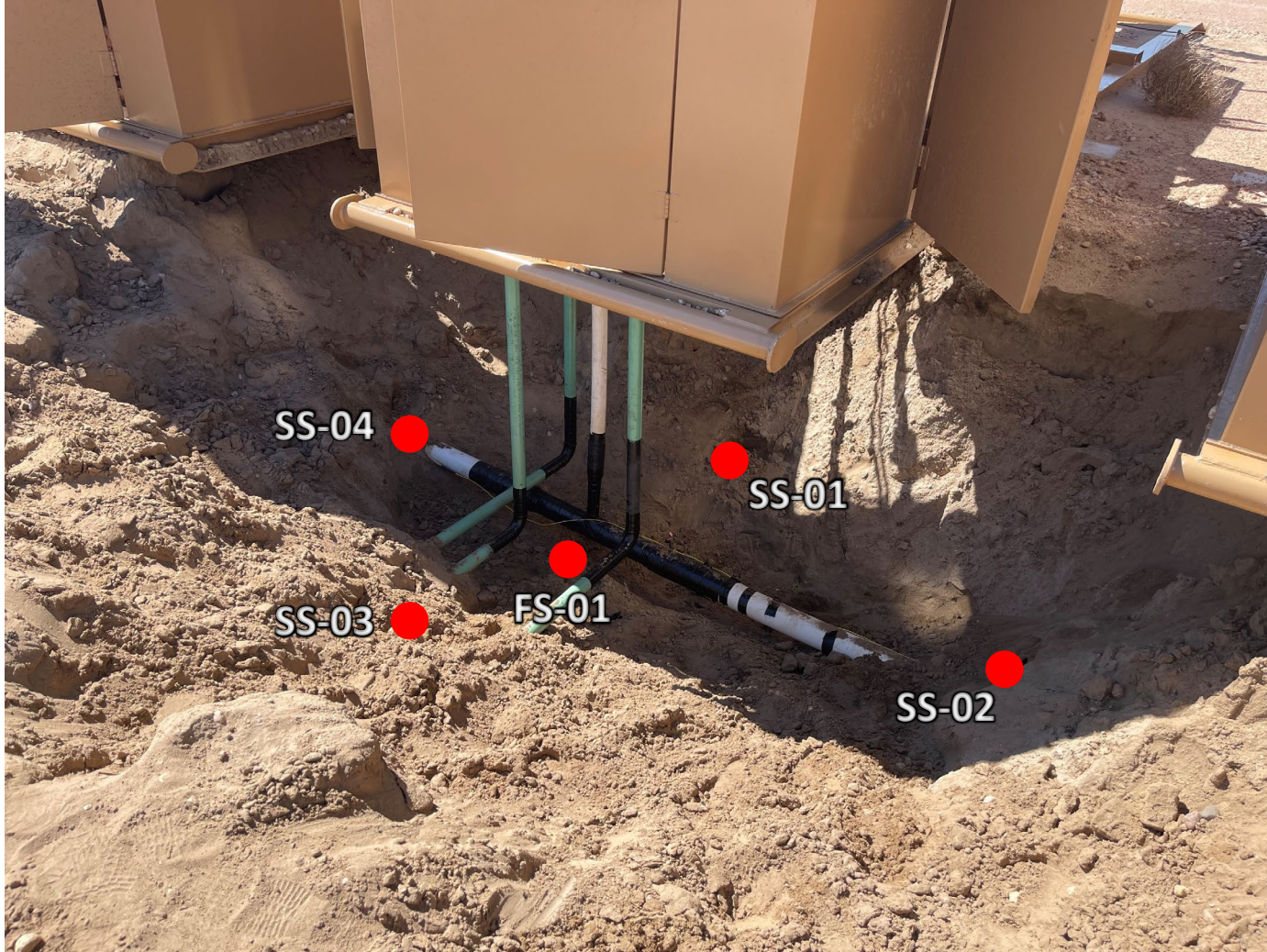
# Produced Water Release – 5/20/21



Soil removal completed based on visual observations



# Confirmation Sampling – 5/25/21



Soil removal completed based on visual observations  
No residual petroleum hydrocarbon staining or odor  
observed

Soil samples collected:

SS-01 @ 4' – 13.4 ppm-v

SS-02 @ 4' – 4.3 ppm-v

SS-03 @ 3.5' – 9.7 ppm-v

SS-04 @ 4' – 8.8 ppm-v

FS-01 @ 5.5' – 41.2 ppm-v



## **ATTACHMENT B**

### **Laboratory Analytical Report**



June 02, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10**

**Project Number - 454976**

Attached are your analytical results for Bonanza - RSU Anschutz Fed 4-62-11\_12 SE10 received by Origins Laboratory, Inc. May 25, 2021. This project is associated with Origins project number Y105490-01.

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: 454976

Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01 @ 4'	Y105490-01	Soil	May 25, 2021 14:40	05/25/2021 17:22
SS-02 @ 4'	Y105490-02	Soil	May 25, 2021 14:43	05/25/2021 17:22
SS-03 @ 3.5'	Y105490-03	Soil	May 25, 2021 14:45	05/25/2021 17:22
SS-04 @ 4'	Y105490-04	Soil	May 25, 2021 14:50	05/25/2021 17:22
FS-01 @ 5.5'	Y105490-05	Soil	May 25, 2021 15:00	05/25/2021 17:22

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: 454976

Project: Bonanza - RSU Anschutz Fed

4-62-11\_12 SE10

Origins Laboratory

## Sample Receipt Checklist

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

Origins Work Order: Y103490

Client: Eagle

Client Project ID: Bonanza-RSU Anschutz

Checklist Completed by: dm

Date/time completed: 5-26-21

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

Airbill #: WTR

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

Cooler Number/Temperature: 1 1-3 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: T203

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): dm

Date/Time Reviewed: 5-27-21

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: 454976  
Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

SS-01 @ 4'  
5/25/2021 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.  
Y105490-01 (Soil)

## Boron (Sorbitol)

Boron	1.2		mg/L	1	[none]	05/27/2021	06/01/2021	
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## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1E2606	05/26/2021	05/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.9 %	50-150			"	"	"	
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## GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1E2605	05/26/2021	05/27/2021	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	102 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 454976  
Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

SS-01 @ 4'  
5/25/2021 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y105490-01 (Soil)

## GBTEX+TMBs

Surrogate: Toluene-d8	105 %	70-130	B1E26 05	05/26/2021	05/27/2021
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

## Metals by Saturated Paste

Calcium	0.736	meq/L	1	[CALC]	05/27/2021	05/27/2021
Magnesium	0.268	"	"	"	"	"
Sodium	5.14	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	0.00072	0.00048	0.00067	mg/Kg	1	L555750	05/28/2021	05/28/2021	
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	0.000241	0.000133	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.000375	0.000138	0.00067	"	"	"	"	"	J
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	"	"	"	"	"	
Fluorene	ND	0.000501	0.00067	"	"	"	"	"	

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: 454976  
Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

**SS-01 @ 4'**  
**5/25/2021 2:40:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y105490-01 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	0.000376	0.000344	0.00067	mg/Kg	1	L555750	05/28/2021	05/28/2021	J
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	74 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	73.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	63.7 %	29-110	"	"	"

**pH in Soil by EPA 9045D**

pH	7.91	pH Units	1	B1E2706	05/27/2021	05/27/2021
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**SAR by 20B Saturated Paste**

SAR	3.21	SAR	1	B1E2708	05/27/2021	05/27/2021
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	1.54	0.00500	mmhos/cm	1	B1E2707	05/27/2021	05/27/2021
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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: 454976  
Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

SS-02 @ 4'  
5/25/2021 2:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.  
Y105490-02 (Soil)

## Boron (Sorbitol)

Boron	0.1		mg/L	1	[none]	05/27/2021	06/01/2021	
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## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1E2606	05/26/2021	05/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.1 %	50-150			"	"	"	
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## GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1E2605	05/26/2021	05/27/2021	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	107 %	70-130			"	"	"	
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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: 454976  
Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

SS-02 @ 4'  
5/25/2021 2:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y105490-02 (Soil)

## GBTEX+TMBs

Surrogate: Toluene-d8	104 %	70-130	B1E26 05	05/26/2021	05/27/2021
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

## Metals by Saturated Paste

Calcium	2.24	meq/L	1	[CALC]	05/27/2021	05/27/2021
Magnesium	0.722	"	"	"	"	"
Sodium	2.49	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L555750	05/28/2021	05/28/2021	
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	0.000418	0.000133	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.000638	0.000138	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.00164	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	ND	0.000501	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.

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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 454976  
Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

## SS-02 @ 4'

5/25/2021 2:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, Inc. Y105490-02 (Soil)

### PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.000398	0.000344	0.00067	mg/Kg	1	L555750	05/28/2021	05/28/2021	J
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	0.000864	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	75.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	72.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	64.2 %	29-110	"	"	"

### pH in Soil by EPA 9045D

pH	7.31	pH Units	1	B1E2706	05/27/2021	05/27/2021
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### SAR by 20B Saturated Paste

SAR	2.05	SAR	1	B1E2708	05/27/2021	05/27/2021
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.632	0.00500	mmhos/cm	1	B1E2707	05/27/2021	05/27/2021
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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: 454976  
Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

**SS-03 @ 3.5'**  
**5/25/2021 2:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y105490-03 (Soil)**

**Boron (Sorbitol)**

Boron	0.1		mg/L	1	[none]	05/27/2021	06/01/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1E2606	05/26/2021	05/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	75.4 %	50-150			"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1E2607	05/26/2021	05/26/2021	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	102 %	70-130			"	"	"	
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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: 454976  
Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

**SS-03 @ 3.5'**  
**5/25/2021 2:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y105490-03 (Soil)**

**GBTEX+TMBs**

Surrogate: Toluene-d8	98.7 %	70-130	B1E26 07	05/26/2021	05/26/2021
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

**Metals by Saturated Paste**

Calcium	1.72	meq/L	1	[CALC]	05/27/2021	05/27/2021
Magnesium	0.523	"	"	"	"	"
Sodium	0.699	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	0.000664	0.00048	0.00067	mg/Kg	1	L555750	05/28/2021	05/28/2021	J
2-Methylnaphthalene	0.000573	0.000542	0.00067	"	"	"	"	"	J
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000489	0.000441	0.00067	"	"	"	"	"	J
Benzo(a)pyrene	0.000684	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000715	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.000571	0.000486	0.00067	"	"	"	"	"	J
Chrysene	0.000448	0.000256	0.00067	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	0.000788	0.000529	0.00067	"	"	"	"	"	
Fluorene	ND	0.000501	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 454976  
Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

## SS-03 @ 3.5'

5/25/2021 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, Inc.

Y105490-03 (Soil)

### PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.00049	0.000344	0.00067	mg/Kg	1	L555750	05/28/2021	05/28/2021	J
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	0.000931	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	70.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	59 %	29-110	"	"	"

### pH in Soil by EPA 9045D

pH	7.85	pH Units	1	B1E2706	05/27/2021	05/27/2021
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### SAR by 20B Saturated Paste

SAR	0.660	SAR	1	B1E2708	05/27/2021	05/27/2021
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.345	0.00500	mmhos/cm	1	B1E2707	05/27/2021	05/27/2021
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Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 454976  
Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

**SS-04 @ 4'**  
**5/25/2021 2:50:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y105490-04 (Soil)**

**Boron (Sorbitol)**

Boron	0.1		mg/L	1	[none]	05/27/2021	06/01/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1E2606	05/26/2021	05/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	71.4 %	50-150			"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1E2607	05/26/2021	05/26/2021	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	117 %	70-130			"	"	"	
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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: 454976  
Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

**SS-04 @ 4'**  
**5/25/2021 2:50:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y105490-04 (Soil)**

**GBTEX+TMBs**

Surrogate: Toluene-d8	95.9 %	70-130	B1E26 07	05/26/2021	05/26/2021
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

**Metals by Saturated Paste**

Calcium	1.44	meq/L	1	[CALC]	05/27/2021	05/27/2021
Magnesium	0.439	"	"	"	"	"
Sodium	0.555	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L555750	05/28/2021	05/28/2021	
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	0.000274	0.000133	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.000519	0.000138	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.00199	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	ND	0.000501	0.00067	"	"	"	"	"	

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: 454976  
Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

## SS-04 @ 4'

5/25/2021 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, Inc.

Y105490-04 (Soil)

### PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L555750	05/28/2021	05/28/2021
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	0.00106	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	72.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	72.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	61.7 %	29-110	"	"	"

### pH in Soil by EPA 9045D

pH	7.56	pH Units	1	B1E2706	05/27/2021	05/27/2021
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### SAR by 20B Saturated Paste

SAR	0.572	SAR	1	B1E2708	05/27/2021	05/27/2021
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.271	0.00500	mmhos/cm	1	B1E2707	05/27/2021	05/27/2021
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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 454976  
Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

**FS-01 @ 5.5'**  
**5/25/2021 3:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**Y105490-05 (Soil)**

**Boron (Sorbitol)**

Boron	0.1		mg/L	1	[none]	05/27/2021	06/01/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1E2606	05/26/2021	05/27/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	75.9 %	50-150			"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1E2607	05/26/2021	05/27/2021	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	120 %	70-130			"	"	"	
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Project Number: 454976  
Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

**FS-01 @ 5.5'**  
**5/25/2021 3:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y105490-05 (Soil)**

**GBTEX+TMBs**

Surrogate: Toluene-d8	96.1 %	70-130	B1E26 07	05/26/2021	05/27/2021
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

**Metals by Saturated Paste**

Calcium	1.74	meq/L	1	[CALC]	05/27/2021	05/27/2021
Magnesium	0.534	"	"	"	"	"
Sodium	0.736	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00184	0.00048	0.00067	mg/Kg	1	L555750	05/28/2021	05/28/2021
2-Methylnaphthalene	0.0028	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00127	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.00146	0.000133	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00164	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.000638	0.000486	0.00067	"	"	"	"	"
Chrysene	0.00217	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	0.0019	0.000529	0.00067	"	"	"	"	"
Fluorene	ND	0.000501	0.00067	"	"	"	"	"

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Martin C Eckert III  
Project Number: 454976  
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4-62-11\_12 SE10

**FS-01 @ 5.5'**  
**5/25/2021 3:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y105490-05 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	0.00091	0.000344	0.00067	mg/Kg	1	L555750	05/28/2021	05/28/2021	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	0.00233	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	67.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	70.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.5 %	29-110	"	"	"

**pH in Soil by EPA 9045D**

pH	7.41	pH Units	1	B1E2706	05/27/2021	05/27/2021
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**SAR by 20B Saturated Paste**

SAR	0.690	SAR	1	B1E2708	05/27/2021	05/27/2021
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.332	0.00500	mmhos/cm	1	B1E2707	05/27/2021	05/27/2021
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Martin C Eckert III  
Project Number: 454976  
Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

**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 B1E2605 - EPA 5030 (soil)</b>										
<b>Blank (B1E2605-BLK1)</b>					Prepared: 05/26/2021 Analyzed: 05/27/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	104		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

Origins Laboratory, Inc.



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4-62-11\_12 SE10

**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 B1E2605 - EPA 5030 (soil)</b>										
<b>LCS (B1E2605-BS1)</b>					Prepared: 05/26/2021 Analyzed: 05/27/2021					
1,2,4-Trimethylbenzene	0.0522	0.00200	mg/kg	0.0500		104	70-130			
Naphthalene	0.0575	0.0100	"	0.0500		115	70-130			
1,3,5-Trimethylbenzene	0.0511	0.00200	"	0.0500		102	70-130			
Benzene	0.0422	0.00200	"	0.0500		84.4	70-130			
Ethylbenzene	0.0503	0.00200	"	0.0500		101	70-130			
m,p-Xylene	0.0998	0.00400	"	0.100		99.8	70-130			
o-Xylene	0.0504	0.00200	"	0.0500		101	70-130			
Toluene	0.0462	0.00200	"	0.0500		92.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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4-62-11\_12 SE10

**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 B1E2605 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B1E2605-MS1)</b>		<b>Source: Y105475-01</b>			Prepared: 05/26/2021 Analyzed: 05/27/2021					
1,2,4-Trimethylbenzene	0.0414	0.00200	mg/kg	0.0500	0.000720	81.4	70-130			
Naphthalene	0.0373	0.0100	"	0.0500	0.00236	70.0	70-130			
1,3,5-Trimethylbenzene	0.0418	0.00200	"	0.0500	0.000500	82.6	70-130			
Benzene	0.0387	0.00200	"	0.0500	ND	77.4	70-130			
Ethylbenzene	0.0435	0.00200	"	0.0500	ND	87.1	70-130			
m,p-Xylene	0.0851	0.00400	"	0.100	0.000960	84.1	70-130			
o-Xylene	0.0431	0.00200	"	0.0500	ND	86.3	70-130			
Toluene	0.0413	0.00200	"	0.0500	ND	82.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Project Number: 454976  
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4-62-11\_12 SE10

**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 B1E2605 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B1E2605-MSD1)</b>		<b>Source: Y105475-01</b>			Prepared: 05/26/2021 Analyzed: 05/27/2021					
1,2,4-Trimethylbenzene	0.0442	0.00200	mg/kg	0.0500	0.000720	87.0	70-130	6.45	20	
Naphthalene	0.0387	0.0100	"	0.0500	0.00236	72.7	70-130	3.63	20	
1,3,5-Trimethylbenzene	0.0448	0.00200	"	0.0500	0.000500	88.7	70-130	6.97	20	
Benzene	0.0397	0.00200	"	0.0500	ND	79.4	70-130	2.55	20	
Ethylbenzene	0.0464	0.00200	"	0.0500	ND	92.8	70-130	6.36	20	
m,p-Xylene	0.0909	0.00400	"	0.100	0.000960	89.9	70-130	6.57	20	
o-Xylene	0.0460	0.00200	"	0.0500	ND	91.9	70-130	6.33	20	
Toluene	0.0432	0.00200	"	0.0500	ND	86.5	70-130	4.54	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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4-62-11\_12 SE10

**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 B1E2606 - EPA 3550B</b>										
<b>Blank (B1E2606-BLK1)</b>					Prepared: 05/26/2021 Analyzed: 05/26/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	25.0		73.3	50-150			

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8000 W 44th Ave

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Project Number: 454976

Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

**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 B1E2606 - EPA 3550B

**LCS (B1E2606-BS1)**

Prepared: 05/26/2021 Analyzed: 05/26/2021

Diesel (C10-C28)	907	50.0	mg/kg	1000		90.7	70-130			
Residual Range Organics (C28-C40)	899	200	"	1000		89.9	70-130			
Surrogate: o-Terphenyl	50		"	50.0		100	50-150			

Origins Laboratory, Inc.

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Project Number: 454976  
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4-62-11\_12 SE10

## 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 B1E2606 - EPA 3550B

Matrix Spike (B1E2606-MS1)		Source: Y105492-01			Prepared: 05/26/2021 Analyzed: 05/26/2021					
Diesel (C10-C28)	861	50.0	mg/kg	1000	ND	86.1	70-130			
Residual Range Organics (C28-C40)	899	200	"	1000	45.6	85.4	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.2	50-150			

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4-62-11\_12 SE10

## 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 B1E2606 - EPA 3550B

Matrix Spike Dup (B1E2606-MSD1)		Source: Y105492-01			Prepared: 05/26/2021 Analyzed: 05/26/2021					
Diesel (C10-C28)	771	50.0	mg/kg	1000	ND	77.1	70-130	11.1	35	
Residual Range Organics (C28-C40)	776	200	"	1000	45.6	73.0	70-130	14.8	35	
Surrogate: o-Terphenyl	41		"	50.0		81.6	50-150			

Origins Laboratory, Inc.



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4-62-11\_12 SE10

## 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
<b>Batch B1E2607 - EPA 5030 (soil)</b>										
<b>Blank (B1E2607-BLK1)</b>					Prepared: 05/26/2021 Analyzed: 05/26/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

Origins Laboratory, Inc.



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Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

**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 B1E2607 - EPA 5030 (soil)**

**LCS (B1E2607-BS1)**

Prepared: 05/26/2021 Analyzed: 05/26/2021

1,2,4-Trimethylbenzene	0.0535	0.00200	mg/kg	0.0500		107	70-130			
Naphthalene	0.0443	0.0100	"	0.0500		88.5	70-130			
1,3,5-Trimethylbenzene	0.0515	0.00200	"	0.0500		103	70-130			
Benzene	0.0480	0.00200	"	0.0500		96.0	70-130			
Ethylbenzene	0.0489	0.00200	"	0.0500		97.8	70-130			
m,p-Xylene	0.0997	0.00400	"	0.100		99.7	70-130			
o-Xylene	0.0483	0.00200	"	0.0500		96.5	70-130			
Toluene	0.0478	0.00200	"	0.0500		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 454976  
Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

**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 B1E2607 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B1E2607-MS1)</b>		<b>Source: Y105490-03</b>			Prepared: 05/26/2021 Analyzed: 05/26/2021					
1,2,4-Trimethylbenzene	0.0197	0.00200	mg/kg	0.0500	ND	39.4	70-130			QM-07
Naphthalene	0.0313	0.0100	"	0.0500	0.00190	58.9	70-130			QM-07
1,3,5-Trimethylbenzene	0.0475	0.00200	"	0.0500	ND	95.1	70-130			
Benzene	0.0529	0.00200	"	0.0500	0.000620	105	70-130			
Ethylbenzene	0.0424	0.00200	"	0.0500	ND	84.8	70-130			
m,p-Xylene	0.0713	0.00400	"	0.100	ND	71.3	70-130			
o-Xylene	0.0478	0.00200	"	0.0500	0.000780	94.0	70-130			
Toluene	0.0498	0.00200	"	0.0500	0.000740	98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 454976  
Project: Bonanza - RSU Anschutz Fed  
4-62-11\_12 SE10

**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 B1E2607 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B1E2607-MSD1)</b>		<b>Source: Y105490-03</b>			Prepared: 05/26/2021 Analyzed: 05/26/2021					
1,2,4-Trimethylbenzene	0.0108	0.00200	mg/kg	0.0500	ND	21.6	70-130	58.4	20	QM-07, QR-03
Naphthalene	0.0257	0.0100	"	0.0500	0.00190	47.6	70-130	19.7	20	QM-07
1,3,5-Trimethylbenzene	0.0449	0.00200	"	0.0500	ND	89.8	70-130	5.67	20	
Benzene	0.0426	0.00200	"	0.0500	0.000620	84.0	70-130	21.6	20	QR-03
Ethylbenzene	0.0409	0.00200	"	0.0500	ND	81.8	70-130	3.55	20	
m,p-Xylene	0.0547	0.00400	"	0.100	ND	54.7	70-130	26.4	20	QM-07, QR-03
o-Xylene	0.0457	0.00200	"	0.0500	0.000780	89.8	70-130	4.54	20	
Toluene	0.0408	0.00200	"	0.0500	0.000740	80.2	70-130	19.7	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**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 B1E2706 - NO PREP**

<b>Duplicate (B1E2706-DUP1)</b>	<b>Source: Y105490-01</b>		Prepared: 05/27/2021 Analyzed: 05/27/2021							
pH	7.79		pH Units		7.91			1.54	25	

**Batch B1E2707 - NO PREP**

<b>Blank (B1E2707-BLK1)</b>	Prepared: 05/27/2021 Analyzed: 05/27/2021									
Specific Conductance (EC)	0.00250	0.00500	mmhos/cm							
<b>Duplicate (B1E2707-DUP1)</b>	<b>Source: Y105490-01</b>		Prepared: 05/27/2021 Analyzed: 05/27/2021							
Specific Conductance (EC)	1.92	0.00500	mmhos/cm		1.54			19.8	25	

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**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 L555750 - 3550B**

MSD (L 90804-MSD-L555750)		Source: 90804			Prepared: 05/28/2021 Analyzed: 05/28/2021					
Benzo(k)fluoranthene	0.103	0.00243	mg/Kg	0.165	<0.00243	62.4	30-130	5.6	30	
Pyrene	0.144	0.00194	"	0.165	<0.00194	87.2	30-130	2.1	30	
Benzo(a)pyrene	0.158	0.000665	"	0.165	<0.000665	95.7	30-130	3.8	30	
1-Methylnaphthalene	0.295	0.0024	"	0.165	0.158	83	30-130	1.7	30	
2-Methylnaphthalene	0.406	0.00271	"	0.165	0.261	87.8	30-130	0.9	30	
Acenaphthene	0.119	0.00216	"	0.165	0.00577	68.6	30-130	3.4	30	
Dibenz(a,h)anthracene	0.109	0.0014	"	0.165	<0.00140	66	30-130	6.6	30	
Benzo(a)anthracene	0.141	0.00221	"	0.165	<0.00221	85.4	30-130	3.6	30	
Naphthalene	0.158	0.00234	"	0.165	0.0402	71.3	30-130	2.5	30	
Benzo(b)fluoranthene	0.108	0.00069	"	0.165	<0.000690	65.4	30-130	8.4	30	
Chrysene	0.124	0.00128	"	0.165	0.00236	75.1	30-130	3.2	30	
Fluoranthene	0.146	0.00265	"	0.165	<0.00265	88.4	30-130	0.6	30	
Fluorene	0.135	0.00251	"	0.165	0.0254	66.4	30-130	3	30	
Indeno(1,2,3-cd)pyrene	0.102	0.00172	"	0.165	<0.00172	61.8	30-130	6.6	30	
Anthracene	0.141	0.00213	"	0.165	<0.00213	85.4	30-130	2.8	30	
Surrogate: Nitrobenzene-d5	67.5		"	0.33	223	67.5	29-110			
Surrogate: 2-Fluorobiphenyl	69.3		"	0.33	226	69.3	33-115			
Surrogate: 4-Terphenyl-d14	83		"	0.33	265	83	33-122			

MS (L 90804-MS-L555750)		Source: 90804			Prepared: 05/28/2021 Analyzed: 05/28/2021					
Naphthalene	0.154	0.00234	mg/Kg	0.164	0.0402	69.3	30-130			
Indeno(1,2,3-cd)pyrene	0.0954	0.00172	"	0.164	<0.00172	58.1	30-130			
Anthracene	0.137	0.00213	"	0.164	<0.00213	83.5	30-130			
1-Methylnaphthalene	0.29	0.0024	"	0.164	0.158	80.4	30-130			
Fluorene	0.131	0.00251	"	0.164	0.0254	64.3	30-130			
Pyrene	0.141	0.00194	"	0.164	<0.00194	85.9	30-130			
2-Methylnaphthalene	0.402	0.00271	"	0.164	0.261	85.9	30-130			

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**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 L555750 - 3550B**

MS (L 90804-MS-L555750)		Source: 90804			Prepared: 05/28/2021 Analyzed: 05/28/2021					
Acenaphthene	0.115	0.00216	mg/Kg	0.164	0.00577	66.6	30-130			
Benzo(a)anthracene	0.136	0.00221	"	0.164	<0.00221	82.9	30-130			
Benzo(a)pyrene	0.152	0.000665	"	0.164	<0.000665	92.6	30-130			
Benzo(b)fluoranthene	0.0992	0.00069	"	0.164	<0.000690	60.4	30-130			
Benzo(k)fluoranthene	0.0973	0.00243	"	0.164	<0.00243	59.3	30-130			
Chrysene	0.12	0.00128	"	0.164	0.00236	73.1	30-130			
Dibenz(a,h)anthracene	0.102	0.0014	"	0.164	<0.00140	62.1	30-130			
Fluoranthene	0.145	0.00265	"	0.164	<0.00265	88.4	30-130			
Surrogate: Nitrobenzene-d5	67.1		"	0.329	223	67.1	29-110			
Surrogate: 2-Fluorobiphenyl	68		"	0.329	226	68	33-115			
Surrogate: 4-Terphenyl-d14	82.3		"	0.329	265	82.3	33-122			

**LCS (LCS-L555750)**

Prepared: 05/28/2021 Analyzed: 05/28/2021

Fluorene	0.121	0.000501	mg/Kg	0.167		72.4	30-130
Pyrene	0.121	0.000387	"	0.167		72.4	30-130
Benzo(b)fluoranthene	0.11	0.000138	"	0.167		65.8	30-130
1-Methylnaphthalene	0.12	0.00048	"	0.167		71.8	30-130
2-Methylnaphthalene	0.12	0.000542	"	0.167		71.8	30-130
Acenaphthene	0.111	0.000431	"	0.167		66.4	30-130
Anthracene	0.123	0.000426	"	0.167		73.6	30-130
Naphthalene	0.112	0.000467	"	0.167		67	30-130
Benzo(a)pyrene	0.149	0.000133	"	0.167		89.2	30-130
Indeno(1,2,3-cd)pyrene	0.109	0.000344	"	0.167		65.2	30-130
Benzo(k)fluoranthene	0.0999	0.000486	"	0.167		59.8	30-130
Chrysene	0.121	0.000256	"	0.167		72.4	30-130
Dibenz(a,h)anthracene	0.113	0.000279	"	0.167		67.6	30-130
Fluoranthene	0.126	0.000529	"	0.167		75.4	30-130

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**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L555750 - 3550B**

**LCS (LCS-L555750)**

Prepared: 05/28/2021 Analyzed: 05/28/2021

Benzo(a)anthracene	0.141	0.000441	mg/Kg	0.167		84.4	30-130			
Surrogate: Nitrobenzene-d5	72.6		"	0.333		72.6	29-110			
Surrogate: 2-Fluorobiphenyl	75.3		"	0.333		75.3	33-115			
Surrogate: 4-Terphenyl-d14	75.6		"	0.333		75.6	33-122			

**LRB (LRB-L555750)**

Prepared: 05/28/2021 Analyzed: 05/28/2021

Pyrene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	64.5		"	0.333		64.5	29-110			
Surrogate: 4-Terphenyl-d14	76.5		"	0.333		76.5	33-122			
Surrogate: 2-Fluorobiphenyl	75.3		"	0.333		75.3	33-115			

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### Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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