



FIGURES

Figure 1: Initial Assessment Soil Analytical Map

Figure 2: Initial Assessment Polycyclic Aromatic Hydrocarbons Map

Figure 3: Initial Assessment Metals in Soil Map

Figure 4: Confirmation Soil Analytical Map

Figure 5: Confirmation Polycyclic Aromatic Hydrocarbons Map

LEGEND

- INITIAL ASSESSMENT/EXCAVATION BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLE 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
 mmhos/cm = MILLIMHOS PER CENTIMETER

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

NOTES:
 VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY MINIMUM DETECTION LIMITS (MDLs) AND/OR REPORTING LIMITS

VALUES PRESENTED IN **BOLD** TYPEFACE CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS.

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

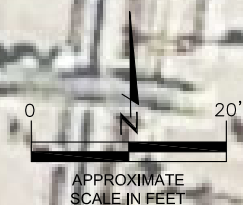
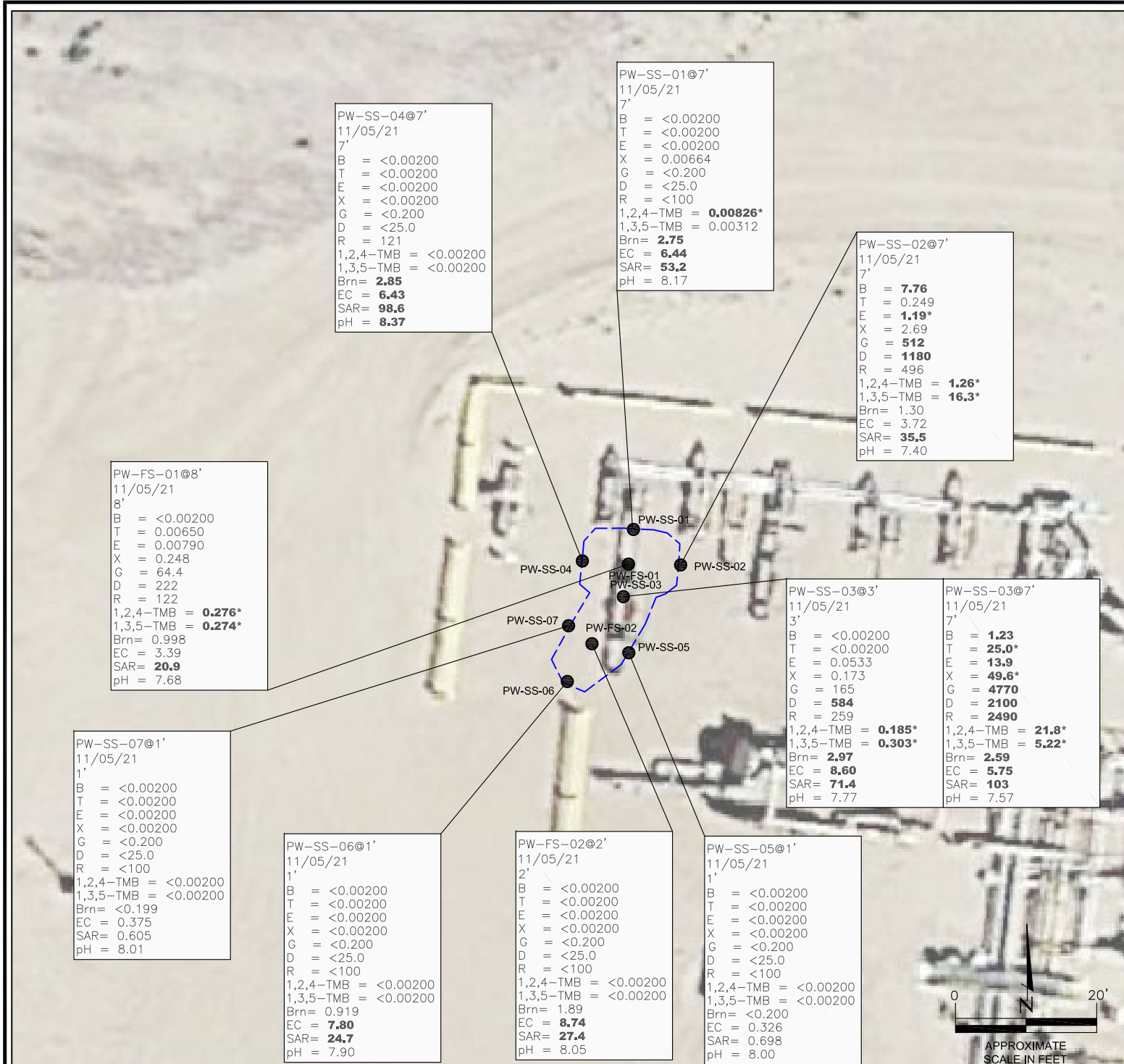
COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION

INITIAL ASSESSMENT SOIL ANALYTICAL MAP
 STATE PRONGHORN CPF 41-32
 PRODUCED WATER RELEASE (NOVEMBER 2021)
 40.362615 / -104.224924
 NE1/4 NE1/4 SEC.32 T5N R61W 6PM
 WELD COUNTY, COLORADO
 LOCATION ID 438946
 SPILL ID 481037

DATE:
 07/07/22
 DRAWN BY:
 TC
 FIG.
 NO. 1



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



LEGEND

--- INITIAL ASSESSMENT/EXCAVATION BOUNDARIES

● APPROXIMATE LOCATION OF SOIL SAMPLE 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

ND = NON-DETECT
MDL = MINIMUM DETECTION LIMIT

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

VALUES PRESENTED IN **BOLD** TYPEFACE CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS.

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

COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION

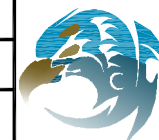
INITIAL ASSESSMENT

POLYCYCLIC AROMATIC HYDROCARBONS MAP
STATE PRONGHORN CPF 41-32
PRODUCED WATER RELEASE (NOVEMBER 2021)
40.362615 / -104.224924
NE1/4 NE1/4 SEC.32 T5N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 438946
SPILL ID 481037

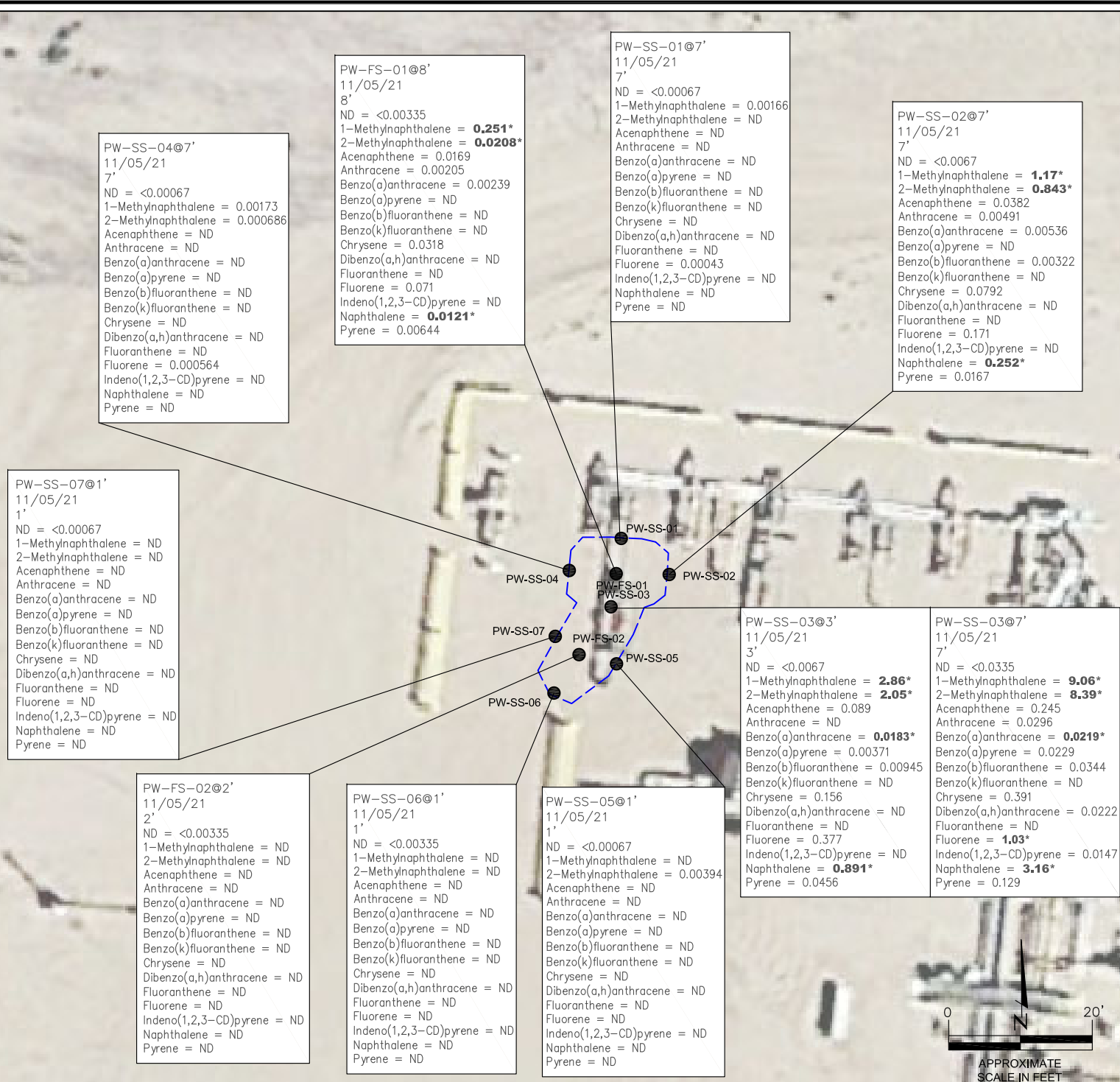
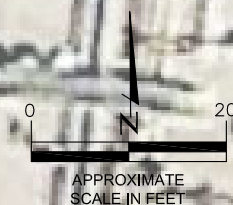
DATE:
07/07/22

DRAWN BY:
TC

FIG. NO. 2



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



PW-SS-04@7'
11/05/21
7'
ND = <0.00067
1-Methylnaphthalene = 0.00173
2-Methylnaphthalene = 0.000686
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 = 0.000564
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = ND
Pyrene = ND

PW-FS-01@8'
11/05/21
8'
ND = <0.00335
1-Methylnaphthalene = **0.251***
2-Methylnaphthalene = **0.0208***
Acenaphthene = 0.0169
Anthracene = 0.00205
Benzo(a)anthracene = 0.00239
Benzo(a)pyrene = ND
Benzo(b)fluoranthene = ND
Benzo(k)fluoranthene = ND
Chrysene = 0.0318
Dibenzo(a,h)anthracene = ND
Fluoranthene = ND
Fluorene = 0.071
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = **0.0121***
Pyrene = 0.00644

PW-SS-01@7'
11/05/21
7'
ND = <0.00067
1-Methylnaphthalene = 0.00166
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 = 0.00043
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = ND
Pyrene = ND

PW-SS-02@7'
11/05/21
7'
ND = <0.0067
1-Methylnaphthalene = **1.17***
2-Methylnaphthalene = **0.843***
Acenaphthene = 0.0382
Anthracene = 0.00491
Benzo(a)anthracene = 0.00536
Benzo(a)pyrene = ND
Benzo(b)fluoranthene = 0.00322
Benzo(k)fluoranthene = ND
Chrysene = 0.0792
Dibenzo(a,h)anthracene = ND
Fluoranthene = ND
Fluorene = 0.171
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = **0.252***
Pyrene = 0.0167

PW-SS-07@1'
11/05/21
1'
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

PW-SS-01
PW-FS-01
PW-SS-03
PW-SS-02
PW-SS-04
PW-SS-07
PW-FS-02
PW-SS-05
PW-SS-06

PW-SS-03@3'
11/05/21
3'
ND = <0.0067
1-Methylnaphthalene = **2.86***
2-Methylnaphthalene = **2.05***
Acenaphthene = 0.089
Anthracene = ND
Benzo(a)anthracene = **0.0183***
Benzo(a)pyrene = 0.00371
Benzo(b)fluoranthene = 0.00945
Benzo(k)fluoranthene = ND
Chrysene = 0.156
Dibenzo(a,h)anthracene = ND
Fluoranthene = ND
Fluorene = 0.377
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = **0.891***
Pyrene = 0.0456

PW-SS-03@7'
11/05/21
7'
ND = <0.0335
1-Methylnaphthalene = **9.06***
2-Methylnaphthalene = **8.39***
Acenaphthene = 0.245
Anthracene = 0.0296
Benzo(a)anthracene = **0.0219***
Benzo(a)pyrene = 0.0229
Benzo(b)fluoranthene = 0.0344
Benzo(k)fluoranthene = ND
Chrysene = 0.391
Dibenzo(a,h)anthracene = 0.0222
Fluoranthene = ND
Fluorene = **1.03***
Indeno(1,2,3-CD)pyrene = 0.0147
Naphthalene = **3.16***
Pyrene = 0.129

PW-FS-02@2'
11/05/21
2'
ND = <0.00335
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

PW-SS-06@1'
11/05/21
1'
ND = <0.00335
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

PW-SS-05@1'
11/05/21
1'
ND = <0.00067
1-Methylnaphthalene = ND
2-Methylnaphthalene = 0.00394
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

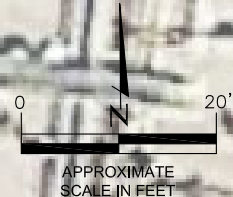


PW-FS-01@8'
11/05/21
8'

Arsenic = 1.66***
Barium = 40.6
Cadmium = 0.0259
Chromium (VI) = <0.244**
Copper = 2.13
Lead = 3.1
Nickel = 2.94
Selenium = 0.182
Silver = 0.0093
Zinc = 12.9

PW-FS-02@2'
11/05/21
2'

Arsenic = 2.01***
Barium = 50.9
Cadmium = <0.25
Chromium (VI) = <0.497**
Copper = 2.28
Lead = 3.51
Nickel = 2.89
Selenium = 0.198
Silver = 0.009
Zinc = 12.1



LEGEND

- INITIAL ASSESSMENT/EXCAVATION BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLE SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH
Arsenic = (mg/kg)
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

(NS) – NOT SAMPLED

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 REGULATORY LIMITS.

VALUES WITH ASTERISK (*) EXCEED "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 (2.86 mg/kg) IS 1.25 LOCAL BACKGROUND (2.29 mg/kg).

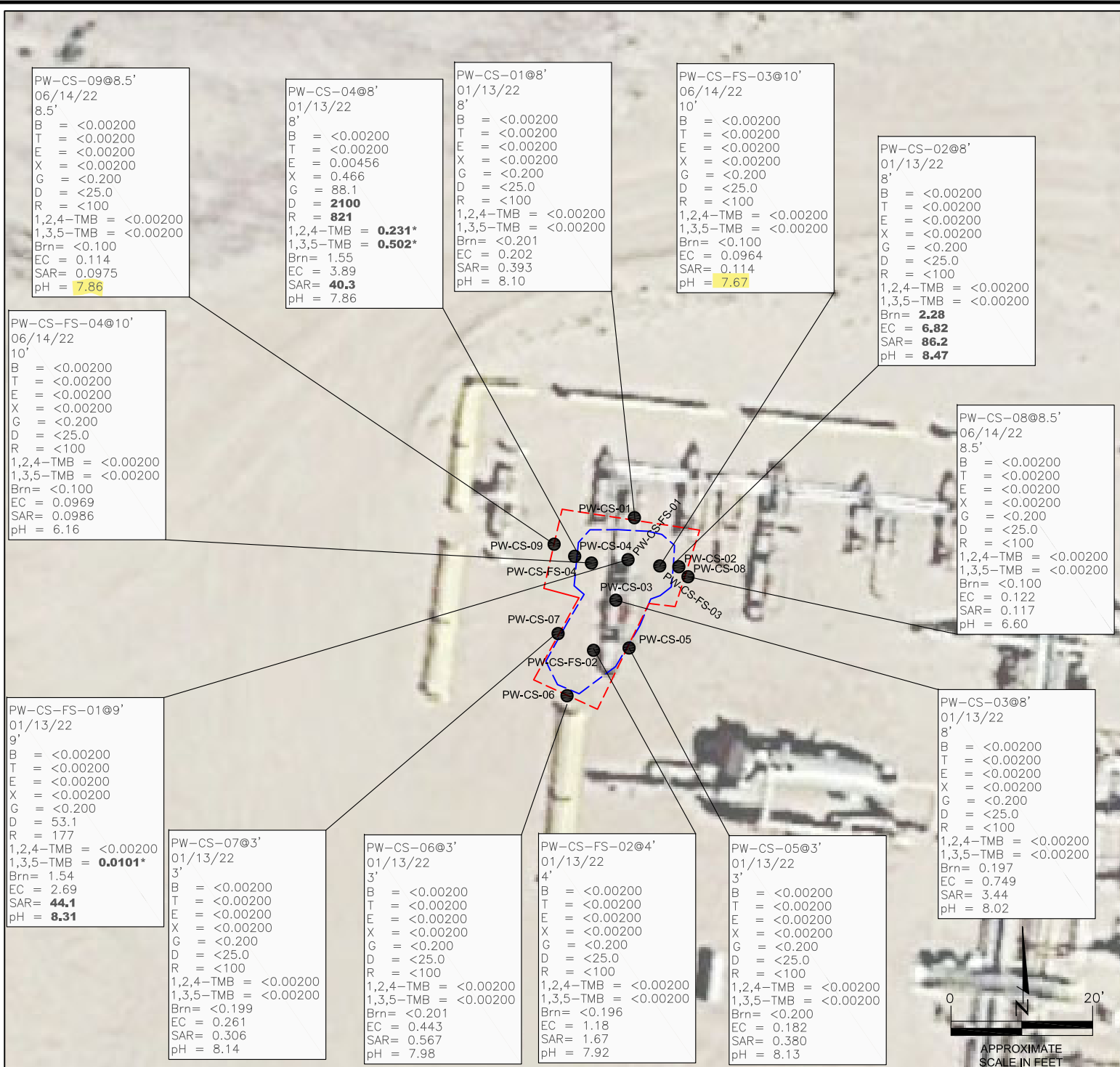
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

INITIAL ASSESSMENT METALS IN SOIL MAP
STATE PRONGHORN CPF 41-32
PRODUCED WATER RELEASE (NOVEMBER 2021)
40.362615 / -104.224924
NE1/4 NE1/4 SEC.32 T5N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 438946
SPILL ID 481037

DATE:
07/07/22
DRAWN BY:
TC
FIG.
NO. 3



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LEGEND

- INITIAL ASSESSMENT/EXCAVATION BOUNDARIES
- APPROXIMATE OVER-EXCAVATION BOUNDARIES
- SS-01 APPROXIMATE LOCATION OF CONFIRMATION SOIL SAMPLES 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
mmhos/cm = MILLIMHOS PER CENTIMETER

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

NOTES:
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY MINIMUM DETECTION LIMITS (MDLs) AND/OR REPORTING LIMITS

VALUES PRESENTED IN **BOLD** TYPEFACE CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS.

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

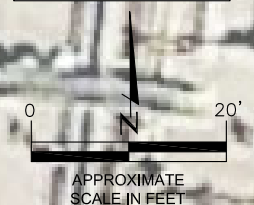
COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION

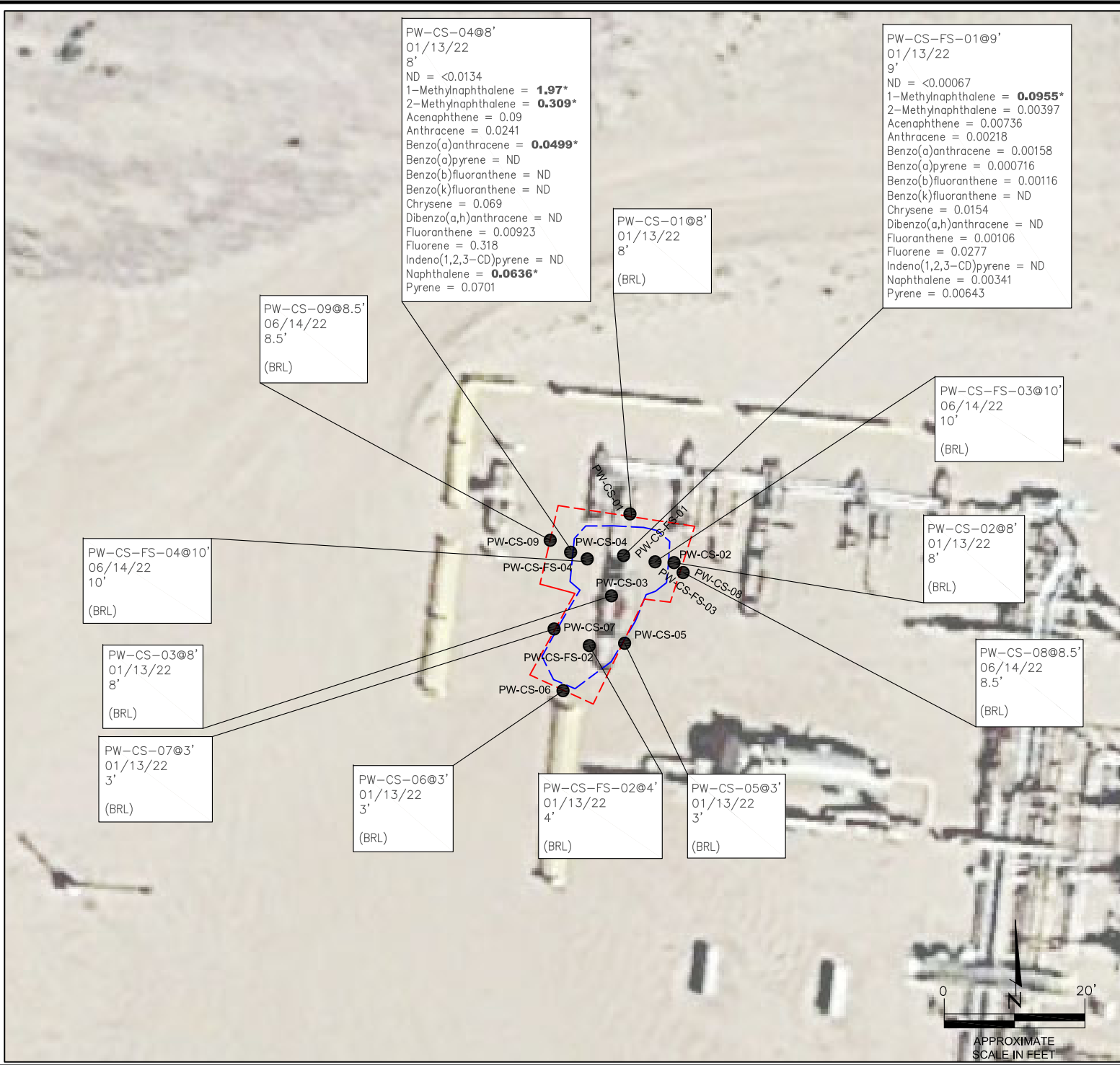
CONFIRMATION SOIL ANALYTICAL MAP
STATE PRONGHORN CPF 41-32
PRODUCED WATER RELEASE (NOVEMBER 2021)
40.362615 / -104.224924
NE1/4 NE1/4 SEC.32 T5N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 438946
SPILL ID 481037

DATE:
07/07/22
DRAWN BY:
TC
FIG. NO. 4



EAGLE ENVIRONMENTAL CONSULTING, INC.
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PW-CS-04@8'
01/13/22
8'
ND = <0.0134
1-Methylnaphthalene = **1.97***
2-Methylnaphthalene = **0.309***
Acenaphthene = 0.09
Anthracene = 0.0241
Benzo(a)anthracene = **0.0499***
Benzo(a)pyrene = ND
Benzo(b)fluoranthene = ND
Benzo(k)fluoranthene = ND
Chrysene = 0.069
Dibenzo(a,h)anthracene = ND
Fluoranthene = 0.00923
Fluorene = 0.318
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = **0.0636***
Pyrene = 0.0701

PW-CS-FS-01@9'
01/13/22
9'
ND = <0.00067
1-Methylnaphthalene = **0.0955***
2-Methylnaphthalene = 0.00397
Acenaphthene = 0.00736
Anthracene = 0.00218
Benzo(a)anthracene = 0.00158
Benzo(a)pyrene = 0.000716
Benzo(b)fluoranthene = 0.00116
Benzo(k)fluoranthene = ND
Chrysene = 0.0154
Dibenzo(a,h)anthracene = ND
Fluoranthene = 0.00106
Fluorene = 0.0277
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = 0.00341
Pyrene = 0.00643

PW-CS-01@8'
01/13/22
8'
(BRL)

PW-CS-09@8.5'
06/14/22
8.5'
(BRL)

PW-CS-FS-03@10'
06/14/22
10'
(BRL)

PW-CS-02@8'
01/13/22
8'
(BRL)

PW-CS-FS-04@10'
06/14/22
10'
(BRL)

PW-CS-08@8.5'
06/14/22
8.5'
(BRL)

PW-CS-03@8'
01/13/22
8'
(BRL)

PW-CS-07@3'
01/13/22
3'
(BRL)

PW-CS-06@3'
01/13/22
3'
(BRL)

PW-CS-FS-02@4'
01/13/22
4'
(BRL)

PW-CS-05@3'
01/13/22
3'
(BRL)

LEGEND

- INITIAL ASSESSMENT/EXCAVATION BOUNDARIES
- APPROXIMATE OVER-EXCAVATION BOUNDARIES
- APPROXIMATE LOCATION OF CONFIRMATION 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

(BRL) - ALL CONCENTRATIONS BELOW REGULATORY LIMITS

ND = NON-DETECT
MDLs = MINIMUM DETECTION LIMITS

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

VALUES PRESENTED IN **BOLD** TYPEFACE CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS.

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

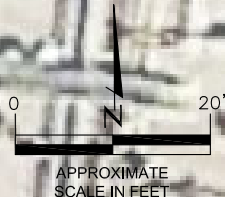
COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION

CONFIRMATION POLYCYCLIC AROMATIC HYDROCARBONS MAP
STATE PRONGHORN CPF 41-32
PRODUCED WATER RELEASE (NOVEMBER 2021)
40.362615 / -104.224924
NE1/4 NE1/4 SEC.32 T5N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 438946
SPILL ID 481037

DATE:
07/07/22
DRAWN BY:
TC
FIG. NO. 2



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





TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

Table 3: PAH Analytical Results Summary

Table 4: Metals Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
STATE PRONGHORN CPF 41-32
PRODUCTION FLUID RELEASE
40.362615 / -104.224924
NE1/4 NE1/4 SEC.32 T5N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 438946
SPILL ID 481037

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
PW-SS-01 @ 7' (40.362629 / -104.224990)	11/05/21	7	280.0	Y
PW-SS-02 @ 7' (40.362619 / -104.224966)	11/05/21	7	152.8	Y
PW-SS-03 @ 7' (40.362606 / -104.224995)	11/05/21	7	268.4	Y
PW-SS-03 @ 3' (40.362606 / -104.224995)	11/05/21	3	164.4	Y
PW-SS-04 @ 7' (40.362625 / -104.225016)	11/05/21	7	222.4	Y
PW-SS-05 @ 1' (40.362579 / -104.224990)	11/05/21	1	10.5	Y
PW-SS-06 @ 1' (40.362570 / -104.225022)	11/05/21	1	110.8	Y
PW-SS-07 @ 1' (40.362590 / -104.225027)	11/05/21	1	12.4	Y
PW-FS-01 @ 8' (40.362615 / -104.224993)	11/05/21	8	127.7	Y
PW-FS-02 @ 2' (40.362583 / -104.225009)	11/05/21	2	323.9	Y
Background-01 @ 5' (40.361737 / -104.224964)	11/22/21	5	0.2	Y
PW-CS-01 @ 8' (40.362640 / -104.224978)	01/13/22	8	1.7	Y
PW-CS-02 @ 8' (40.362611 / -104.224964)	01/13/22	8	2.2	Y
PW-CS-03 @ 8' (40.362604 / -104.224994)	01/13/22	8	3.5	Y
PW-CS-04 @ 8' (40.362610 / -104.225023)	01/13/22	8	178.1	Y
PW-CS-05 @ 3' (40.362580 / -104.224981)	01/13/22	3	2.7	Y
PW-CS-06 @ 3' (40.362564 / -104.225021)	01/13/22	3	2.8	Y
PW-CS-07 @ 3' (40.362589 / -104.225031)	01/13/22	3	7.5	Y
PW-CS-FS-01 @ 9' (40.362615 / -104.224993)	01/13/22	9	50.7	Y
PW-CS-FS-02 @ 4' (40.362583 / -104.225009)	01/13/22	4	4.3	Y
PW-CS-08 @ 8.5' (40.362611 / -104.224946)	06/14/22	8.5	1.4	Y
PW-CS-09 @ 8.5' (40.362610 / -104.225033)	06/14/22	8.5	1.7	Y
PW-CS-FS-03 @ 10' (40.362611 / -104.224974)	06/14/22	10	0.9	Y
PW-CS-FS-04 @ 10' (40.362614 / -104.225021)	06/14/22	10	1.5	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
STATE PRONGHORN CPF 41-32
PRODUCTION FLUID RELEASE
40.362615 / -104.224924
NE1/4 NE1/4 SEC.32 T5N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 438946
SPILL ID 481037

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-TMB (mg/kg)	1,3,5-TMB (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
COGCC Table 915-1 Residential Screening Levels (mg/kg)				1.20	490	5.8	58	500			30	27	2	<4	6-8.3	<6
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels				0.0026	0.69	0.78	9.9	--			0.0081	0.0087	--	--	--	--
PW-SS-01 @ 7' (40.362629 / -104.224990)	11/05/21	7	280.0	<0.00200	<0.00200	<0.00200	0.00664	<0.200	<25.0	<100	0.00826*	0.00312	2.75	6.44	8.17	53.2
PW-SS-02 @ 7' (40.362619 / -104.224966)	11/05/21	7	152.8	7.76	0.249	1.19*	2.69	512	1180	496	1.26*	16.3*	1.30	3.72	7.40	35.5
PW-SS-03 @ 3' (40.362606 / -104.224995)	11/05/21	3	164.4	<0.00200	<0.00200	0.0533	0.173	165	584	259	0.185*	0.303*	2.97	8.60	7.77	71.4
PW-SS-03 @ 7' (40.362606 / -104.224995)	11/05/21	7	268.4	1.23	25.0*	13.9	49.6*	2100	4770	2490	21.8*	5.22*	2.59	5.75	7.57	103
PW-SS-04 @ 7' (40.362625 / -104.225016)	11/05/21	7	222.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	121	<0.00200	<0.00200	2.85	6.43	8.37	98.6
PW-SS-05 @ 1' (40.362579 / -104.224990)	11/05/21	1	10.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.200	0.326	8.00	0.698
PW-SS-06 @ 1' (40.362570 / -104.225022)	11/05/21	1	110.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.919	7.80	7.90	24.7
PW-SS-07 @ 1' (40.362590 / -104.225027)	11/05/21	1	12.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.199	0.375	8.01	0.605
PW-FS-01 @ 8' (40.362615 / -104.224993)	11/05/21	8	127.7	<0.00200	0.00650	0.00790	0.248	64.4	222	122	0.276*	0.274*	0.998	3.39	7.68	20.9
PW-FS-02 @ 2' (40.362583 / -104.225009)	11/05/21	2	323.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	1.89	8.74	8.05	27.4
PW-CS-01 @ 8' (40.362640 / -104.224978)	01/13/22	8	1.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.201	0.202	8.10	0.393
PW-CS-02 @ 8' (40.362611 / -104.224964)	01/13/22	8	2.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	2.28	6.82	8.47	86.2
PW-CS-03 @ 8' (40.362604 / -104.224994)	01/13/22	8	3.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.197	0.749	8.02	3.44
PW-CS-04 @ 8' (40.362610 / -104.225023)	01/13/22	8	178.1	<0.00200	<0.00200	0.00456	0.466	88.1	2100	821	0.231*	0.502*	1.55	3.89	7.86	40.3
PW-CS-05 @ 3' (40.362580 / -104.224981)	01/13/22	3	2.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.200	0.182	8.13	0.380
PW-CS-06 @ 3' (40.362564 / -104.225021)	01/13/22	3	2.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.201	0.443	7.98	0.567
PW-CS-07 @ 3' (40.362589 / -104.225031)	01/13/22	3	7.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.199	0.261	8.14	0.306
PW-CS-FS-01 @ 9' (40.362615 / -104.224993)	01/13/22	9	50.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	53.1	177	<0.00200	0.0101*	1.54	2.69	8.31	44.1
PW-CS-FS-02 @ 4' (40.362583 / -104.225009)	01/13/22	4	4.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.196	1.18	7.92	1.67
PW-CS-08 @ 8.5' (40.362611 / -104.224946)	06/14/22	8.5	1.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.100	0.122	6.60	0.117
PW-CS-09 @ 8.5' (40.362610 / -104.225033)	06/14/22	8.5	1.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.100	0.114	7.86	0.0975
PW-CS-FS-03 @ 10' (40.362611 / -104.224974)	06/14/22	10	0.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.100	0.0964	7.67	0.114
PW-CS-FS-04 @ 10' (40.362614 / -104.225021)	06/14/22	10	1.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.100	0.0969	6.16	0.0986

COGCC = Colorado Oil and Gas Conservation Commission NA - Not Analyzed
mg/kg = milligrams per kilogram
mmhos/cm = millimhos per centimeter TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics 1,2,4-TMB = 1,2,4-Trimethylbenzene
PID = Photoionization Detector TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics 1,3,5-TMB = 1,3,5-Trimethylbenzene
ppm-v = parts per million by volume TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics
mg/L = milligrams per liter
SAR = Sodium Adsorption Ratio
Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.
Note: Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed COGCC Table 915-1 Protection of Groundwater Soil Screening Levels.



TABLE 3
PAH ANALYTICAL RESULTS SUMMARY
STATE PRONGHORN CPF 41-32
PRODUCTION FLUID RELEASE
40.362615 / -104.224924
NE1/4 NE1/4 SEC.32 T5N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 438946
SPILL ID 481037

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm- v)	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)	Indeno(1,2,3- cd)-pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
COGCC Table 915-1 Residential Screening Levels				18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	2	180
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels				0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	0.0038	1.3
PW-SS-01 @ 7' (40.362629 / -104.224990)	11/05/21	7	280.0	0.00166	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00043	<0.00067	<0.00067	<0.00067
PW-SS-02 @ 7' (40.362619 / -104.224966)	11/05/21	7	152.8	1.17*	0.843*	0.0382	0.00491	0.00536	<0.0067	0.00322	<0.0067	0.0792	<0.0067	<0.0067	0.171	<0.0067	0.252*	0.0167
PW-SS-03 @ 3' (40.362606 / -104.224995)	11/05/21	3	164.4	2.86*	2.05*	0.089	<0.0067	0.0183*	0.00371	0.00945	<0.0067	0.156	<0.0067	<0.0067	0.377	<0.0067	0.891*	0.0456
PW-SS-03 @ 7' (40.362606 / -104.224995)	11/05/21	7	268.4	9.06*	8.39*	0.245	0.0296	0.0219*	0.0229	0.0344*	<0.0335	0.391	0.0222	<0.0335	1.03*	0.0147	3.16	0.129
PW-SS-04 @ 7' (40.362625 / -104.225016)	11/05/21	7	222.4	0.00173	0.000686	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000564	<0.00067	<0.00067	<0.00067
PW-SS-05 @ 1' (40.362579 / -104.224990)	11/05/21	1	10.5	<0.00067	0.000394	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
PW-SS-06 @ 1' (40.362570 / -104.225022)	11/05/21	1	110.8	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335
PW-SS-07 @ 1' (40.362590 / -104.225027)	11/05/21	1	12.4	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
PW-FS-01 @ 8' (40.362615 / -104.224993)	11/05/21	8	127.7	0.251*	0.0208*	0.0169	0.00205	0.00239	<0.0335	<0.0335	<0.0335	0.0318	<0.0335	<0.0335	0.071	<0.0335	0.0121*	0.00644
PW-FS-02 @ 2' (40.362583 / -104.225009)	11/05/21	2	323.9	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335
PW-CS-01 @ 8' (40.362640 / -104.224978)	01/13/22	8	1.7	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
PW-CS-02 @ 8' (40.362611 / -104.224964)	01/13/22	8	2.2	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
PW-CS-03 @ 8' (40.362604 / -104.224994)	01/13/22	8	3.5	0.000841	<0.00067	0.000602	0.00218	<0.00067	<0.00067	0.00648	<0.00067	0.00645	<0.00067	0.000512	0.00432	<0.00067	<0.00067	0.00313
PW-CS-04 @ 8' (40.362610 / -104.225023)	01/13/22	8	178.1	1.97*	0.309*	0.09	0.0241	0.0499*	<0.0134	<0.0134	<0.0134	0.069	<0.0134	0.00923	0.318	<0.0134	0.0636*	0.0701
PW-CS-05 @ 3' (40.362580 / -104.224981)	01/13/22	3	2.7	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
PW-CS-06 @ 3' (40.362564 / -104.225021)	01/13/22	3	2.8	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335
PW-CS-07 @ 3' (40.362589 / -104.225031)	01/13/22	3	7.5	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000529	0.000618	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
PW-CS-FS-01 @ 9' (40.362615 / -104.224993)	01/13/22	9	50.7	0.0955*	0.00397	0.00736	0.00218	0.00158	0.000716	0.00116	<0.00067	0.0154	<0.00067	0.00106	0.0277	<0.00067	0.00341	0.00643
PW-CS-FS-02 @ 4' (40.362583 / -104.225009)	01/13/22	4	4.3	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
PW-CS-08 @ 8.5' (40.362611 / -104.224946)	06/14/22	8.5	1.4	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
PW-CS-09 @ 8.5' (40.362610 / -104.225033)	06/14/22	8.5	1.7	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
PW-CS-FS-03 @ 10' (40.362611 / -104.224974)	06/14/22	10	0.9	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
PW-CS-FS-04 @ 10' (40.362614 / -104.225021)	06/14/22	10	1.5	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067

COGCC = Colorado Oil and Gas Conservation Commission PID = Photoionization Detector
mg/kg = milligrams per kilogram 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 **BOLD** contained concentrations exceeding COGCC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed COGCC Table 915-1 Protection of Groundwater Soil Screening Levels.

TABLE 4
 METALS ANALYTICAL RESULTS SUMMARY
 STATE PRONGHORN CPF 41-32
 PRODUCTION FLUID RELEASE
 40.362615 / -104.224924
 NE1/4 NE1/4 SEC.32 T5N R61W 6PM
 WELD COUNTY, COLORADO
 LOCATION ID 438946
 SPILL ID 481037

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Hexavalent Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
COGCC Table 915-1 Residential Screening Levels			0.68***	15,000	71	0.3**	3,100	400	1,500	390	390	23,000
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels			0.29***	82	0.38	0.00067**	46	14	26	0.26	0.8	370
Local Cleanup Levels			2.86***	--	--	0.1 to 1**	--	--	--	--	--	--
PW-FS-01 @ 8" (40.362615 / -104.224993)	11/05/21	8	1.66***	40.6	0.0259	<0.244**	2.13	3.1	2.94	0.182	0.0093	12.9
PW-FS-02 @ 2" (40.362583 / -104.225009)	11/05/21	2	2.01***	50.9	<0.25	<0.497**	2.28	3.51	2.89	0.198	0.009	12.1
Background-01 @ 5" (40.361737 / -104.224964)	11/22/21	5	2.29***	NA	NA	NA	NA	NA	NA	NA	NA	NA
COGCC = Colorado Oil and Gas Conservation Commission			NA - Not Analyzed									
mg/kg = milligrams per kilogram												
Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit or minimum detection levels.												
Values presented in BOLD contained concentrations exceeding applicable COGCC Table 915-1 Regulatory Limits												
Values presented in BOLD+* contained concentrations exceeding COGCC Table 915-1 Protection of Groundwater Soil Screening Levels												
**Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg.												
***Arsenic is naturally occurring in Colorado. Local clean-up level (2.86 mg/kg) is 1.25*Background (2.29 mg/kg)												



ATTACHMENT A

Photolog

State Pronghorn CPF 41-32

NENE Sec. 32 T5N R61W 6PM

Location ID 438946

Spill ID 481037

Production Fluid Release

November 2021 – June 2022



EAGLE
ENVIRONMENTAL
CONSULTING, INC.

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



Production Fluid Release / Initial Cleanup – 11/05/21



Looking northeast

Produced water release outside of containment

Surficial and subsurface soil removed adjacent to the release location based on visual observations

Slight residual petroleum hydrocarbon odor observed during assessment activities, no staining observed

Samples collected:

PW-SS-05@1' – 10.5 ppm-v

PW-FS-02@2' – 323.9 ppm-v

Production Fluid Release / Initial Cleanup – 11/05/21



Looking east

Produced water release outside of containment

Surficial and subsurface soil removed adjacent to the release location based on visual observations

Slight residual petroleum hydrocarbon odor observed during assessment activities, no staining observed

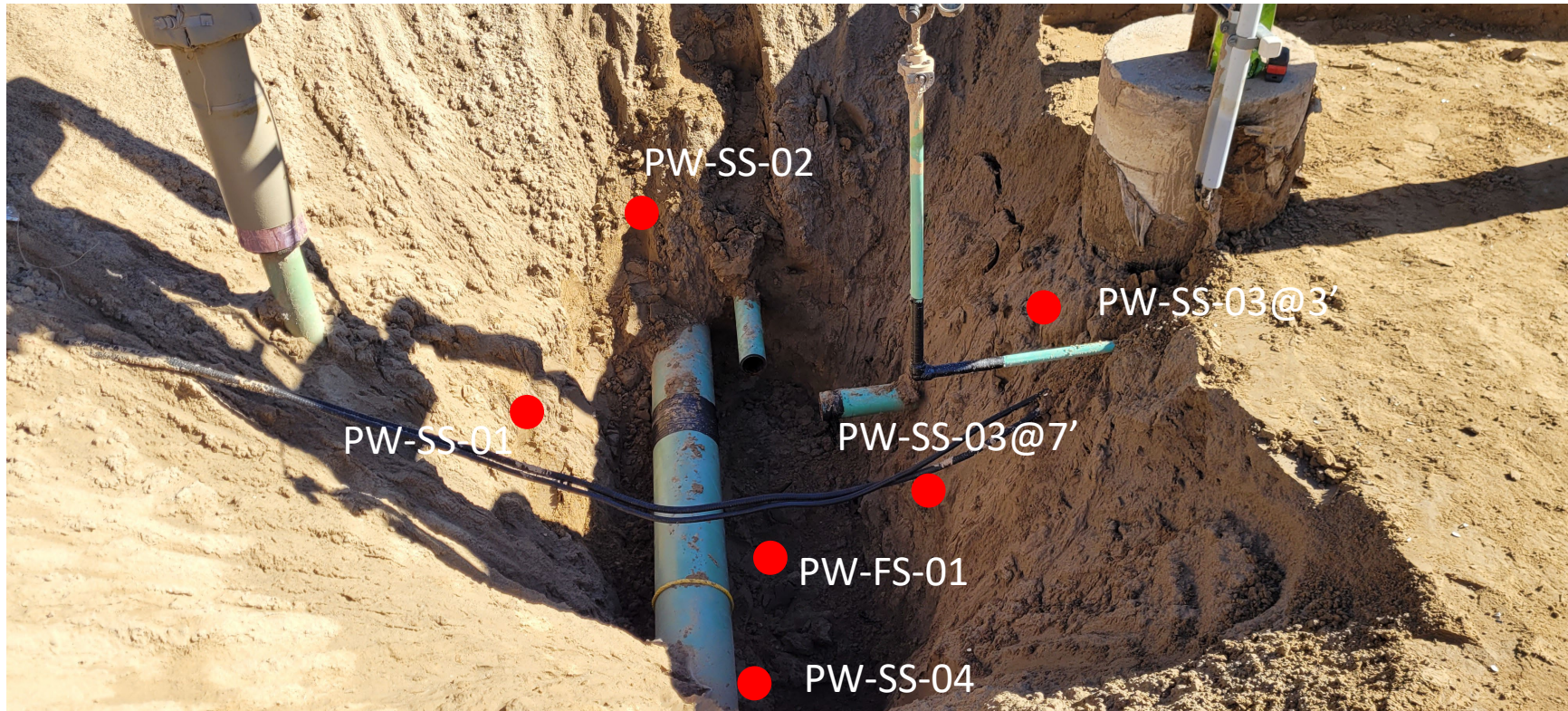
Samples collected:

PW-SS-05@1' – 10.5 ppm-v

PW-SS-06@1' – 110.8 ppm-v

PW-FS-02@2' – 323.9 ppm-v

Production Fluid Release / Initial Cleanup – 11/05/21



Looking east

Produced water release outside of containment

Compromised line cut/repairs

Surficial and subsurface soil removed adjacent to the release location based on visual observations

Slight residual petroleum hydrocarbon odor observed during assessment activities, no staining observed

Samples collected:

PW-SS-01@7' – 280.0 ppm-v

PW-SS-02@7' – 152.8 ppm-v

PW-SS-03@3' – 164.4 ppm-v

PW-SS-03@7' – 268.4 ppm-v

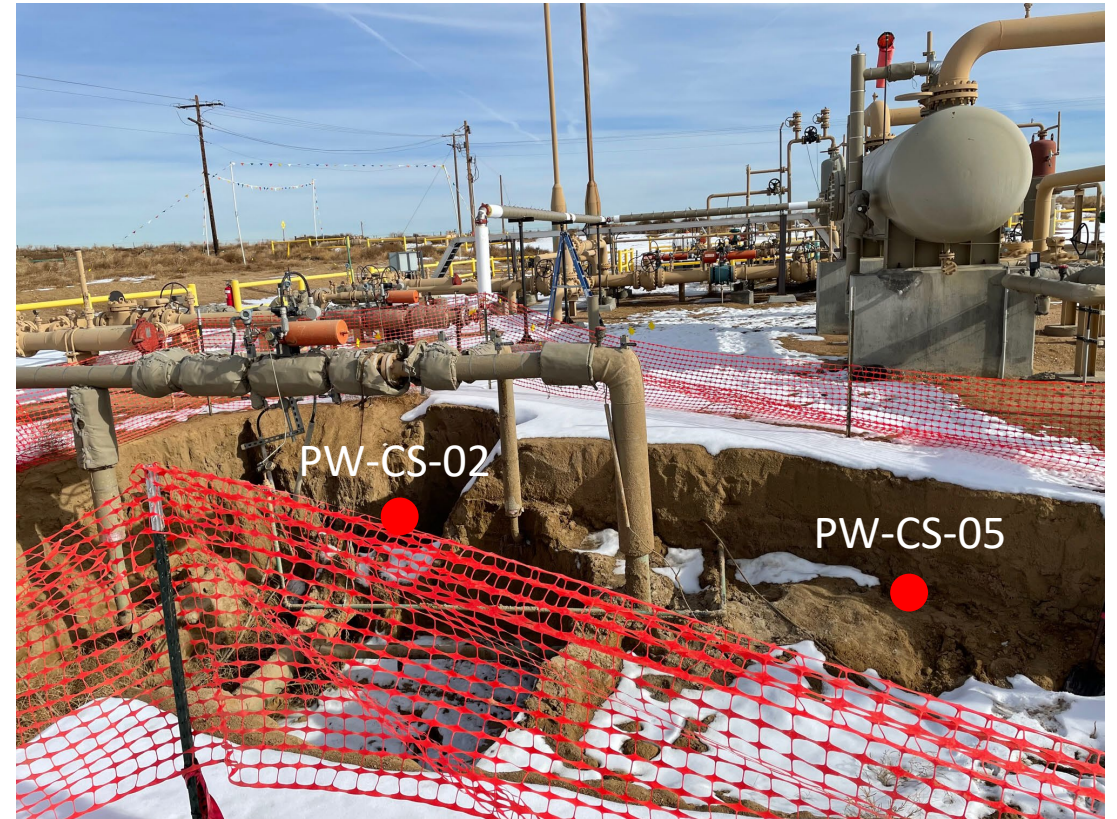
PW-SS-04@7' – 222.4 ppm-v

PW-FS-01@8' – 127.7 ppm-v

Over-excavation / Confirmation sampling – 01/13/22

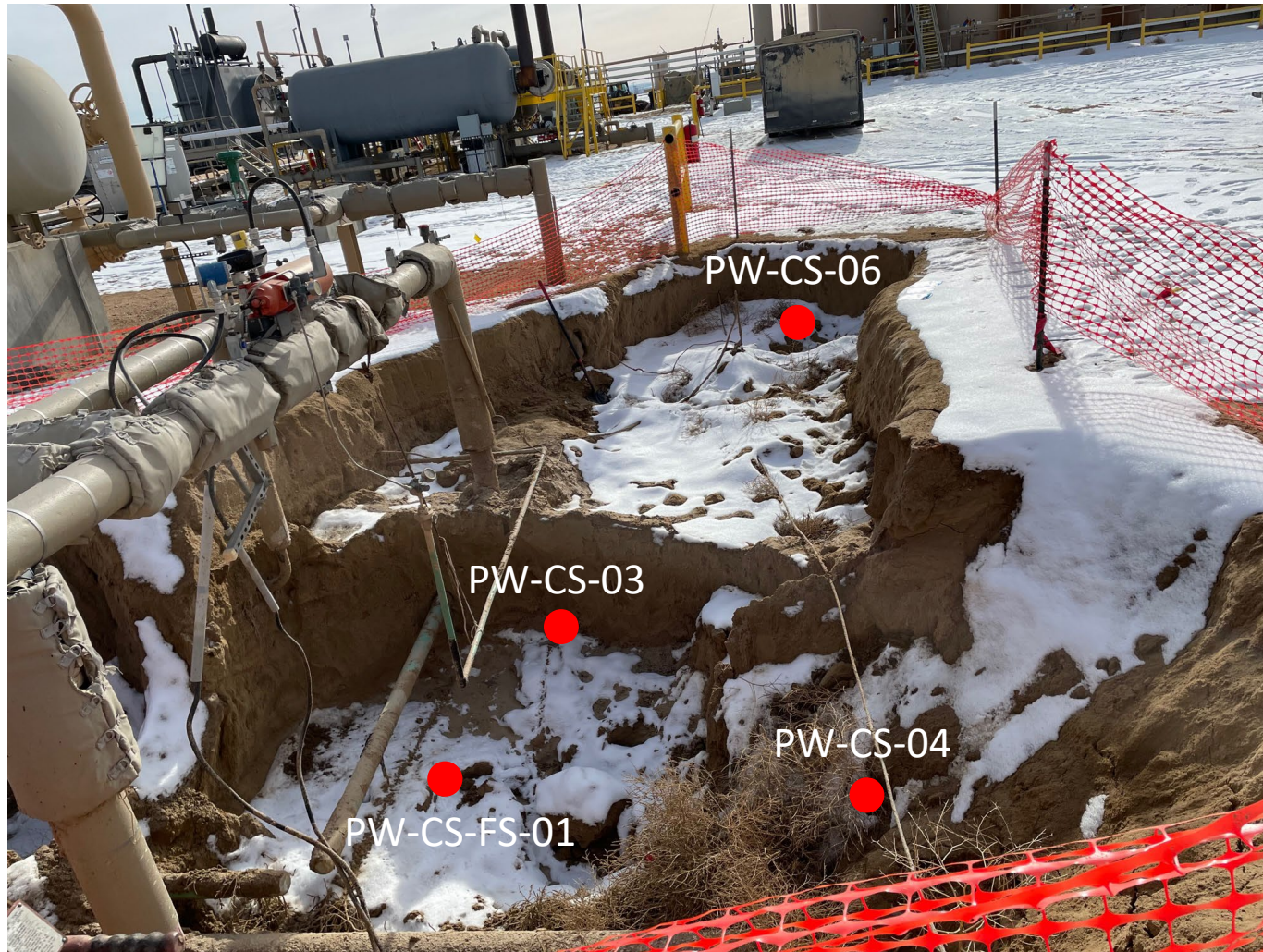


Looking north
No petroleum hydrocarbon staining or odor observed
Samples collected:
PW-CS-01@8' – 1.7 ppm-v
PW-CS-07@3' – 7.5 ppm-v
PW-CS-FS-02@4' – 4.3 ppm-v



Looking east
No petroleum hydrocarbon staining or odor observed
Samples collected:
PW-CS-02@8' – 2.2 ppm-v
PW-CS-05@3' – 2.7 ppm-v

Over-excavation / Confirmation sampling – 01/13/22



Looking south

No petroleum hydrocarbon staining or odor observed

Samples collected:

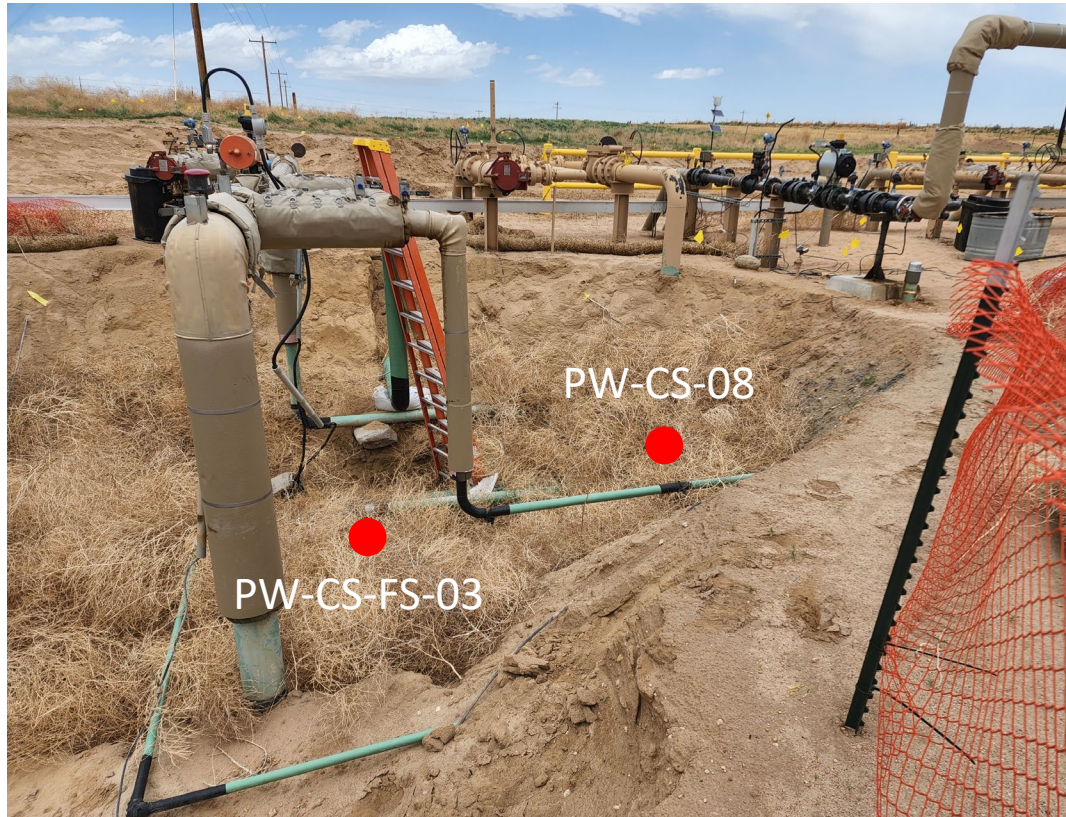
PW-CS-03@8' – 3.5 ppm-v

PW-CS-04@8' – 178.1 ppm-v

PW-CS-06@3' – 2.8 ppm-v

PW-CS-FS-01@9' – 50.7 ppm-v

Over-excavation / Confirmation sampling – 06/14/22



Looking north
No petroleum hydrocarbon staining or odor observed
Visuals limited by tumbleweeds
Samples collected:
PW-CS-08@8.5' – 1.4 ppm-v
PW-CS-FS-03@10' – 0.9 ppm-v



Looking northeast
No petroleum hydrocarbon staining or odor observed
Visuals limited by tumbleweeds
Samples collected:
PW-CS-09@8.5' – 1.7 ppm-v
PW-CS-FS-04@10' – 1.5 ppm-v



ATTACHMENT B

Laboratory Analytical Reports



November 24, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

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

Attached are your analytical results for Bonanza - State Pronghorn CPF 41-32 received by Origins Laboratory, Inc. November 05, 2021. This project is associated with Origins project number Y111138-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

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

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-SS-01@7'	Y111138-01	Soil	November 5, 2021 11:25	11/05/2021 15:30
PW-SS-02@7'	Y111138-02	Soil	November 5, 2021 11:26	11/05/2021 15:30
PW-SS-03@7'	Y111138-03	Soil	November 5, 2021 11:27	11/05/2021 15:30
PW-SS-04@7'	Y111138-04	Soil	November 5, 2021 11:28	11/05/2021 15:30
PW-FS-01@8'	Y111138-05	Soil	November 5, 2021 11:29	11/05/2021 15:30
PW-FS-02@2'	Y111138-06	Soil	November 5, 2021 12:01	11/05/2021 15:30
PW-SS-03@3'	Y111138-07	Soil	November 5, 2021 12:02	11/05/2021 15:30
PW-SS-05@1'	Y111138-08	Soil	November 5, 2021 12:03	11/05/2021 15:30
PW-SS-06@1'	Y111138-09	Soil	November 5, 2021 12:04	11/05/2021 15:30
PW-SS-07@1'	Y111138-10	Soil	November 5, 2021 12:05	11/05/2021 15:30

Origins Laboratory, Inc.



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

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

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

VIII/28

www.originslaboratory.com

page 1 of 1

Client: Eagle Environmental
 Address: 8000 W 44th Ave
 Wheat Ridge CO
 Telephone Number: 303 433 0479
 Email Address: mce3@eagle-environment.com

Project Manager: Martin Eckert III
 Project Name: State Pronghorn CPF 41-32
 Project Number: [blank]
 Samples Collected by: KF

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analyte	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sample #		
PW-SS-0107	11/5/21	11:25	2	X				X				TA pH EC SAR Dy Substrate paste prep 2 3 4 5 6 7 8 9 10
PW-SS-0207		11:26										
PW-SS-0307		11:27										
PW-SS-0407		11:28										
PW-FS-0108		11:29										
PW-FS-0202		12:01										
PW-SS-0303		12:02										
PW-SS-0501		12:03										
PW-SS-0601		12:04										
PW-SS-0701		12:05										
Relinquished By: [Signature]	Date: 11/5/21	Time: 15:21	Received By: [Signature]	Date: 5/11/21	Time: 15:30	Turnaround Time: Same Day	24 Hr	48 Hr	72 Hr	Standard		

Temp Received: 22.0
 Date Results Needed

Origins Laboratory, Inc.

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

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

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y111138 Client: Eagle
 Client Project ID: State Pronghorn CPF 41-32

Checklist Completed by: JG Shipped Via: HD
 Date/time completed: 11/8/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____


Cooler Number/Temperature: 1 12.2 °C 1 °C 1 °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 ⁽¹⁾ ?	<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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) Jm Date/Time Reviewed 11-9-12

Origins Laboratory, Inc.



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

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

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

PW-SS-01@7'

11/5/2021 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111138-01 (Soil)

Boron (DTPA Sorbitol)

Boron	2.75		0.200	mg/L	1	B1K0805	11/08/2021	11/08/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1K0814	11/08/2021	11/11/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.1 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.00826		0.00200	mg/kg	1	B1K0809	11/08/2021	11/10/2021	
1,3,5-Trimethylbenzene	0.00312		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	0.00664		0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.7 %		70-130			"	"	"	
Surrogate: Toluene-d8	100 %		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: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-SS-01@7'

11/5/2021 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111138-01 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	95.3 %		70-130			B1K08 09	11/08/2021	11/10/2021	
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Metals by Saturated Paste

Calcium	2.11		0.499	meq/L	10	[CALC]	11/08/2021	11/09/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	60.8		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00166	0.00033	0.00067	mg/Kg	1	L584044	11/10/2021	11/10/2021	
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	ND	0.00027	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	
Fluorene	0.00043	0.00029	0.00067	"	"	"	"	"	J

Origins Laboratory, Inc.



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

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

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

PW-SS-01@7'

11/5/2021 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111138-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	mg/Kg	1	L584044	11/10/2021	11/10/2021	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	56.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	62.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	45.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.17			pH Units	1	B1K0826	11/08/2021	11/09/2021	
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SAR by 20B Saturated Paste

SAR	53.2			SAR	1	B1K0820	11/08/2021	11/09/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.44		0.00500	mmhos/cm	1	B1K0823	11/08/2021	11/09/2021	
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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 - State Pronghorn CPF 41-32

PW-SS-02@7'

11/5/2021 11:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111138-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.30		0.200	mg/L	1	B1K0805	11/08/2021	11/08/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	1180		25.0	mg/kg	1	B1K0814	11/08/2021	11/11/2021	
Residual Range Organics (C28-C40)	496		100	"	"	"	"	"	

Surrogate: o-Terphenyl	105 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	1.26		0.500	mg/kg	250	B1K0809	11/08/2021	11/12/2021	
1,3,5-Trimethylbenzene	16.3		0.100	"	50	"	"	11/10/2021	
Benzene	7.76		0.100	"	"	"	"	"	
Ethylbenzene	1.19		0.500	"	250	"	"	11/12/2021	
Toluene	0.249		0.00200	"	1	"	"	11/11/2021	
Gasoline Range Hydrocarbons	512		50.0	"	250	"	"	11/12/2021	
Xylenes, total	2.69		0.500	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		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: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-SS-02@7'

11/5/2021 11:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y111138-02 (Soil)

Metals by Saturated Paste

Calcium	1.69		0.499	meq/L	10	[CALC]	11/08/2021	11/09/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	36.2		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	1.17	0.0033	0.0067	mg/Kg	10	L584044	11/10/2021	11/10/2021	
2-Methylnaphthalene	0.843	0.0039	0.0067	"	"	"	"	"	
Acenaphthene	0.0382	0.003	0.0067	"	"	"	"	"	
Anthracene	0.00491	0.0033	0.0067	"	"	"	"	"	J
Benzo(a)anthracene	0.00536	0.0041	0.0067	"	"	"	"	"	J
Benzo(a)pyrene	ND	0.0014	0.0067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00322	0.0021	0.0067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.0013	0.0067	"	"	"	"	"	
Chrysene	0.0792	0.0027	0.0067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0036	0.0067	"	"	"	"	"	
Fluoranthene	ND	0.0039	0.0067	"	"	"	"	"	
Fluorene	0.171	0.0029	0.0067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.0029	0.0067	"	"	"	"	"	
Naphthalene	0.252	0.00467	0.0067	"	"	"	"	"	
Pyrene	0.0167	0.0059	0.0067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	59.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	76.5 %		33-122			"	"	"	

Origins Laboratory, Inc.



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

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

PW-SS-02@7'

11/5/2021 11:26:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111138-02 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	42.8 %		29-110			L5840 44	11/10/2021	11/10/2021	
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pH in Soil by 9045D

pH	7.40			pH Units	1	B1K0826	11/08/2021	11/09/2021	
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SAR by 20B Saturated Paste

SAR	35.5			SAR	1	B1K0820	11/08/2021	11/09/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.72		0.00500	mmhos/cm	1	B1K0823	11/08/2021	11/09/2021	
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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 - State Pronghorn CPF 41-32

PW-SS-03@7'

11/5/2021 11:27:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111138-03 (Soil)

Boron (DTPA Sorbitol)

Boron	2.59		0.199	mg/L	1	B1K0805	11/08/2021	11/08/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	4770		250	mg/kg	10	B1K0814	11/08/2021	11/11/2021	
Residual Range Organics (C28-C40)	2490		100	"	1	"	"	11/11/2021	

Surrogate: o-Terphenyl	95.3 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	21.8		0.500	mg/kg	250	B1K0809	11/08/2021	11/12/2021	
1,3,5-Trimethylbenzene	5.22		0.500	"	"	"	"	"	
Benzene	1.23		0.500	"	"	"	"	"	
Ethylbenzene	13.9		0.500	"	"	"	"	"	
Toluene	25.0		0.500	"	"	"	"	"	
Gasoline Range Hydrocarbons	2100		50.0	"	"	"	"	"	
Xylenes, total	49.6		0.500	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	114 %		70-130			"	"	"	
Surrogate: Toluene-d8	96.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

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

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

PW-SS-03@7'

11/5/2021 11:27:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y111138-03 (Soil)

Metals by Saturated Paste

Calcium	0.569		0.499	meq/L	10	[CALC]	11/08/2021	11/09/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	60.3		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	9.06	0.0165	0.0335	mg/Kg	50	L584044	11/10/2021	11/10/2021	
2-Methylnaphthalene	8.39	0.0195	0.0335	"	"	"	"	"	
Acenaphthene	0.245	0.015	0.0335	"	"	"	"	"	
Anthracene	0.0296	0.0165	0.0335	"	"	"	"	"	J
Benzo(a)anthracene	0.0219	0.0205	0.0335	"	"	"	"	"	J
Benzo(a)pyrene	0.0229	0.007	0.0335	"	"	"	"	"	J
Benzo(b)fluoranthene	0.0344	0.0105	0.0335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.0065	0.0335	"	"	"	"	"	
Chrysene	0.391	0.0135	0.0335	"	"	"	"	"	
Dibenz(a,h)anthracene	0.0222	0.018	0.0335	"	"	"	"	"	J
Fluoranthene	ND	0.0195	0.0335	"	"	"	"	"	
Fluorene	1.03	0.0145	0.0335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.0147	0.0145	0.0335	"	"	"	"	"	J
Naphthalene	3.16	0.0234	0.0335	"	"	"	"	"	
Pyrene	0.129	0.0295	0.0335	"	"	"	"	"	

Origins Laboratory, Inc.



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

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

PW-SS-03@7'

11/5/2021 11:27:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111138-03 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	61.9 %		33-115			L5840 44	11/10/2021	11/10/2021	
Surrogate: 4-Terphenyl-d14	66.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	87.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.57			pH Units	1	B1K0826	11/08/2021	11/09/2021	
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SAR by 20B Saturated Paste

SAR	103			SAR	1	B1K0820	11/08/2021	11/09/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.75		0.00500	mmhos/cm	1	B1K0823	11/08/2021	11/09/2021	
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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 - State Pronghorn CPF 41-32

PW-SS-04@7'

11/5/2021 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111138-04 (Soil)

Boron (DTPA Sorbitol)

Boron	2.85		0.199	mg/L	1	B1K0805	11/08/2021	11/08/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1K0814	11/08/2021	11/11/2021	U
Residual Range Organics (C28-C40)	121		100	"	"	"	"	"	

Surrogate: <i>o</i> -Terphenyl	99.8 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1K0809	11/08/2021	11/12/2021	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			"	"	"	
Surrogate: Toluene-d8	94.8 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

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

PW-SS-04@7'

11/5/2021 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111138-04 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene 98.6 % 70-130 B1K0809 11/08/2021 11/12/2021

Metals by Saturated Paste

Calcium	0.674		0.499	meq/L	10	[CALC]	11/08/2021	11/09/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	63.2		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00173	0.00033	0.00067	mg/Kg	1	L584044	11/10/2021	11/10/2021	
2-Methylnaphthalene	0.000686	0.00039	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	ND	0.00027	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	
Fluorene	0.000564	0.00029	0.00067	"	"	"	"	"	J

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

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

PW-SS-04@7'

11/5/2021 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111138-04 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	mg/Kg	1	L584044	11/10/2021	11/10/2021	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	54.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	70.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	43.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.37			pH Units	1	B1K0826	11/08/2021	11/09/2021	
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SAR by 20B Saturated Paste

SAR	98.6			SAR	1	B1K0820	11/08/2021	11/09/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.43	0.00500		mmhos/cm	1	B1K0823	11/08/2021	11/09/2021	
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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 - State Pronghorn CPF 41-32

PW-FS-01@8'

11/5/2021 11:29:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111138-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.998		0.200	mg/L	1	B1K0805	11/08/2021	11/08/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	222		25.0	mg/kg	1	B1K0814	11/08/2021	11/11/2021	
Residual Range Organics (C28-C40)	122		100	"	"	"	"	"	

Surrogate: o-Terphenyl	99.4 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.276		0.00200	mg/kg	1	B1K0809	11/08/2021	11/10/2021	
1,3,5-Trimethylbenzene	0.274		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.00790		0.00200	"	"	"	"	"	
Toluene	0.00650		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	64.4		10.0	"	50	"	"	11/12/2021	
Xylenes, total	0.248		0.00200	"	1	"	"	11/10/2021	

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			"	"	11/12/2021	
Surrogate: Toluene-d8	98.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

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

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

PW-FS-01@8'

11/5/2021 11:29:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y111138-05 (Soil)

Metals by Saturated Paste

Calcium	3.40		0.499	meq/L	10	[CALC]	11/08/2021	11/09/2021	
Magnesium	0.905		0.823	"	"	"	"	"	
Sodium	30.7		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.251	0.00165	0.00335	mg/Kg	5	L584044	11/10/2021	11/10/2021	
2-Methylnaphthalene	0.0208	0.00195	0.00335	"	"	"	"	"	
Acenaphthene	0.0169	0.0015	0.00335	"	"	"	"	"	
Anthracene	0.00205	0.00165	0.00335	"	"	"	"	"	J
Benzo(a)anthracene	0.00239	0.00205	0.00335	"	"	"	"	"	J
Benzo(a)pyrene	ND	0.0007	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00105	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00065	0.00335	"	"	"	"	"	
Chrysene	0.0318	0.00135	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0018	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00195	0.00335	"	"	"	"	"	
Fluorene	0.071	0.00145	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00145	0.00335	"	"	"	"	"	
Naphthalene	0.0121	0.00234	0.00335	"	"	"	"	"	
Pyrene	0.00644	0.00295	0.00335	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	57.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	76.2 %		33-122			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

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

PW-FS-01@8'

11/5/2021 11:29:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111138-05 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	44.5 %		29-110			L5840 44	11/10/2021	11/10/2021	
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pH in Soil by 9045D

pH	7.68			pH Units	1	B1K0826	11/08/2021	11/09/2021	
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SAR by 20B Saturated Paste

SAR	20.9			SAR	1	B1K0820	11/08/2021	11/09/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.39		0.00500	mmhos/cm	1	B1K0823	11/08/2021	11/09/2021	
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Total Metals by 6020B

Arsenic	1.66	0.0855	0.25	mg/Kg	5	L583871	11/10/2021	11/10/2021	
Barium	40.6	0.042	0.25	"	"	"	"	"	
Cadmium	0.0259	0.0259	0.25	"	"	"	"	"	J
Copper	2.13	0.0806	0.25	"	"	"	"	"	
Lead	3.1	0.031	0.25	"	"	"	"	"	
Nickel	2.94	0.0633	0.25	"	"	"	"	"	
Selenium	0.182	0.103	0.25	"	"	"	"	"	J
Silver	0.0093	0.0067	0.25	"	"	"	"	"	J
Zinc	12.9	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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

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

PW-FS-01@8'

11/5/2021 11:29:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111138-05 (Soil)

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L583964	11/05/2021	11/10/2021	
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Origins Laboratory, Inc.



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 8000 W 44th Ave
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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-FS-02@2'

11/5/2021 12:01:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111138-06 (Soil)

Boron (DTPA Sorbitol)

Boron	1.89		0.201	mg/L	1	B1K0805	11/08/2021	11/08/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1K0814	11/08/2021	11/11/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	101 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1K0809	11/08/2021	11/11/2021	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: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-FS-02@2'

11/5/2021 12:01:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111138-06 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	106 %		70-130			B1K08 09	11/08/2021	11/11/2021	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	11.5		0.499	meq/L	10	[CALC]	11/08/2021	11/09/2021	
Magnesium	2.48		0.823	"	"	"	"	"	
Sodium	72.6		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00165	0.00335	mg/Kg	5	L584066	11/10/2021	11/10/2021	
2-Methylnaphthalene	ND	0.00195	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.0015	0.00335	"	"	"	"	"	
Anthracene	ND	0.00165	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00205	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.0007	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00105	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00065	0.00335	"	"	"	"	"	
Chrysene	ND	0.00135	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0018	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00195	0.00335	"	"	"	"	"	

Origins Laboratory, Inc.



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

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

PW-FS-02@2'

11/5/2021 12:01:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111138-06 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00145	0.00335	mg/Kg	5	L584066	11/10/2021	11/10/2021	
Indeno(1,2,3-cd)pyrene	ND	0.00145	0.00335	"	"	"	"	"	
Naphthalene	ND	0.00234	0.00335	"	"	"	"	"	
Pyrene	ND	0.00295	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	45.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	61.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	35.8 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.05			pH Units	1	B1K0826	11/08/2021	11/09/2021	
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SAR by 20B Saturated Paste

SAR	27.4			SAR	1	B1K0820	11/08/2021	11/09/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.74		0.00500	mmhos/cm	1	B1K0823	11/08/2021	11/09/2021	
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Total Metals by 6020B

Arsenic	2.01	0.0855	0.25	mg/Kg	5	L583871	11/10/2021	11/10/2021	
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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 - State Pronghorn CPF 41-32

PW-FS-02@2'

11/5/2021 12:01:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111138-06 (Soil)

Total Metals by 6020B

Barium	50.9	0.042	0.25	mg/Kg	5	L583871	11/10/2021	11/10/2021	
Cadmium	ND	0.0259	0.25	"	"	"	"	"	
Copper	2.28	0.0806	0.25	"	"	"	"	"	
Lead	3.51	0.031	0.25	"	"	"	"	"	
Nickel	2.89	0.0633	0.25	"	"	"	"	"	
Selenium	0.198	0.103	0.25	"	"	"	"	"	J
Silver	0.009	0.0067	0.25	"	"	"	"	"	J
Zinc	12.1	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.497	1.02	mg/Kg	2	L583964	11/05/2021	11/10/2021	
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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 - State Pronghorn CPF 41-32

PW-SS-03@3'

11/5/2021 12:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111138-07 (Soil)

Boron (DTPA Sorbitol)

Boron	2.97		0.199	mg/L	1	B1K0805	11/08/2021	11/08/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	584		25.0	mg/kg	1	B1K0814	11/08/2021	11/11/2021	
Residual Range Organics (C28-C40)	259		100	"	"	"	"	"	

Surrogate: o-Terphenyl	108 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.185		0.00200	mg/kg	1	B1K0809	11/08/2021	11/11/2021	
1,3,5-Trimethylbenzene	0.303		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.0533		0.00200	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	165		10.0	"	50	"	"	11/12/2021	
Xylenes, total	0.173		0.00200	"	1	"	"	11/11/2021	

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
Surrogate: Toluene-d8	108 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	141 %		70-130			"	"	"	S-04

Origins Laboratory, Inc.



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

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

PW-SS-03@3'

11/5/2021 12:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y111138-07 (Soil)

Metals by Saturated Paste

Calcium	2.14		0.499	meq/L	10	[CALC]	11/08/2021	11/09/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	82.7		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	2.86	0.0033	0.0067	mg/Kg	10	L584066	11/10/2021	11/10/2021	
2-Methylnaphthalene	2.05	0.0039	0.0067	"	"	"	"	"	
Acenaphthene	0.089	0.003	0.0067	"	"	"	"	"	
Anthracene	ND	0.0033	0.0067	"	"	"	"	"	
Benzo(a)anthracene	0.0183	0.0041	0.0067	"	"	"	"	"	
Benzo(a)pyrene	0.00371	0.0014	0.0067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.00945	0.0021	0.0067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.0013	0.0067	"	"	"	"	"	
Chrysene	0.156	0.0027	0.0067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0036	0.0067	"	"	"	"	"	
Fluoranthene	ND	0.0039	0.0067	"	"	"	"	"	
Fluorene	0.377	0.0029	0.0067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.0029	0.0067	"	"	"	"	"	
Naphthalene	0.891	0.00467	0.0067	"	"	"	"	"	
Pyrene	0.0456	0.0059	0.0067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	55.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	69.4 %		33-122			"	"	"	

Origins Laboratory, Inc.



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

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

PW-SS-03@3'

11/5/2021 12:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111138-07 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	54.4 %		29-110			L5840 66	11/10/2021	11/10/2021	
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pH in Soil by 9045D

pH	7.77			pH Units	1	B1K0826	11/08/2021	11/09/2021	
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SAR by 20B Saturated Paste

SAR	71.4			SAR	1	B1K0820	11/08/2021	11/09/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.60		0.00500	mmhos/cm	1	B1K0823	11/08/2021	11/09/2021	
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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 - State Pronghorn CPF 41-32

PW-SS-05@1'

11/5/2021 12:03:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111138-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.200	mg/L	1	B1K0805	11/08/2021	11/08/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1K0814	11/08/2021	11/11/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 101 % 50-150 " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1K0809	11/08/2021	11/11/2021	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 " " "

Origins Laboratory, Inc.



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

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

PW-SS-05@1'

11/5/2021 12:03:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111138-08 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	107 %		70-130			B1K08 09	11/08/2021	11/11/2021	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	2.22		0.499	meq/L	10	[CALC]	11/08/2021	11/09/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.826		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L584066	11/10/2021	11/10/2021	
2-Methylnaphthalene	0.000394	0.00039	0.00067	"	"	"	"	"	J
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	ND	0.00027	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	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: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-SS-05@1'

11/5/2021 12:03:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111138-08 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L584066	11/10/2021	11/10/2021	
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	53.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	72.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	43.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.00			pH Units	1	B1K0826	11/08/2021	11/09/2021	
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SAR by 20B Saturated Paste

SAR	0.698			SAR	1	B1K0820	11/08/2021	11/09/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.326		0.00500	mmhos/cm	1	B1K0823	11/08/2021	11/09/2021	
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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 - State Pronghorn CPF 41-32

PW-SS-06@1'

11/5/2021 12:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111138-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.919		0.200	mg/L	1	B1K0805	11/08/2021	11/08/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1K0814	11/08/2021	11/11/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.0 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1K0809	11/08/2021	11/11/2021	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	101 %		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: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-SS-06@1'

11/5/2021 12:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111138-09 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	106 %		70-130			B1K08 09	11/08/2021	11/11/2021	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	11.3		0.499	meq/L	10	[CALC]	11/08/2021	11/09/2021	
Magnesium	2.18		0.823	"	"	"	"	"	
Sodium	64.1		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00165	0.00335	mg/Kg	5	L584066	11/10/2021	11/10/2021	
2-Methylnaphthalene	ND	0.00195	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.0015	0.00335	"	"	"	"	"	
Anthracene	ND	0.00165	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00205	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.0007	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00105	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00065	0.00335	"	"	"	"	"	
Chrysene	ND	0.00135	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0018	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00195	0.00335	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

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

PW-SS-06@1'

11/5/2021 12:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111138-09 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00145	0.00335	mg/Kg	5	L584066	11/10/2021	11/10/2021	
Indeno(1,2,3-cd)pyrene	ND	0.00145	0.00335	"	"	"	"	"	
Naphthalene	ND	0.00234	0.00335	"	"	"	"	"	
Pyrene	ND	0.00295	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	51.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	68.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	38.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.90			pH Units	1	B1K0826	11/08/2021	11/09/2021	
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SAR by 20B Saturated Paste

SAR	24.7			SAR	1	B1K0820	11/08/2021	11/09/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	7.80		0.00500	mmhos/cm	1	B1K0823	11/08/2021	11/09/2021	
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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 - State Pronghorn CPF 41-32

PW-SS-07@1'

11/5/2021 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111138-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.199	mg/L	1	B1K0805	11/08/2021	11/08/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1K0814	11/08/2021	11/11/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.8 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1K0809	11/08/2021	11/11/2021	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: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-SS-07@1'

11/5/2021 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111138-10 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	106 %		70-130			B1K08 09	11/08/2021	11/11/2021	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	2.51		0.499	meq/L	10	[CALC]	11/08/2021	11/09/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.766		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L584066	11/10/2021	11/10/2021	
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	ND	0.00027	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	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: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-SS-07@1'

11/5/2021 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111138-10 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L584066	11/10/2021	11/10/2021	
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	53.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	68.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	42.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.01			pH Units	1	B1K0826	11/08/2021	11/09/2021	
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SAR by 20B Saturated Paste

SAR	0.605			SAR	1	B1K0820	11/08/2021	11/09/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.375		0.00500	mmhos/cm	1	B1K0823	11/08/2021	11/09/2021	
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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 - State Pronghorn CPF 41-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1K0809 - EPA 5030 (soil)

Blank (B1K0809-BLK1)

Prepared: 11/08/2021 Analyzed: 11/10/2021

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		93.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.7	70-130			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1K0809 - EPA 5030 (soil)

LCS (B1K0809-BS1)

Prepared: 11/08/2021 Analyzed: 11/10/2021

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
Naphthalene	0.105	0.0100	"	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.211	0.00400	"	0.200		105	70-130			
o-Xylene	0.109	0.00200	"	0.100		109	70-130			
Toluene	0.0978	0.00200	"	0.100		97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1K0809 - EPA 5030 (soil)

Matrix Spike (B1K0809-MS1)	Source: Y111137-01			Prepared: 11/08/2021 Analyzed: 11/10/2021						
1,2,4-Trimethylbenzene	0.124	0.00200	mg/kg	0.100	0.000580	123	70-130			
Naphthalene	0.120	0.0100	"	0.100	0.00498	115	70-130			
1,3,5-Trimethylbenzene	0.121	0.00200	"	0.100	ND	121	70-130			
Benzene	0.133	0.00200	"	0.100	ND	133	70-130			QM-07
Ethylbenzene	0.116	0.00200	"	0.100	ND	116	70-130			
m,p-Xylene	0.242	0.00400	"	0.200	ND	121	70-130			
o-Xylene	0.126	0.00200	"	0.100	ND	126	70-130			
Toluene	0.120	0.00200	"	0.100	ND	120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.3	70-130			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1K0809 - EPA 5030 (soil)

Matrix Spike Dup (B1K0809-MSD1)	Source: Y111137-01	Prepared: 11/08/2021 Analyzed: 11/10/2021								
1,2,4-Trimethylbenzene	0.217	0.00200	mg/kg	0.100	0.000580	216	70-130	54.9	20	QM-07
Naphthalene	0.214	0.0100	"	0.100	0.00498	209	70-130	56.3	20	QM-07
1,3,5-Trimethylbenzene	0.213	0.00200	"	0.100	ND	213	70-130	54.8	20	QM-07
Benzene	0.202	0.00200	"	0.100	ND	202	70-130	41.0	20	QM-07
Ethylbenzene	0.210	0.00200	"	0.100	ND	210	70-130	57.5	20	QM-07
m,p-Xylene	0.436	0.00400	"	0.200	ND	218	70-130	57.3	20	QM-07
o-Xylene	0.225	0.00200	"	0.100	ND	225	70-130	56.3	20	QM-07
Toluene	0.206	0.00200	"	0.100	ND	206	70-130	52.8	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1K0814 - EPA 3550B										
Blank (B1K0814-BLK1)										
					Prepared: 11/08/2021 Analyzed: 11/10/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		103	50-150			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1K0814 - EPA 3550B

LCS (B1K0814-BS1)

Prepared: 11/08/2021 Analyzed: 11/10/2021

Diesel (C10-C28)	1110	50.0	mg/kg	1000		111	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000		111	70-130			
Surrogate: o-Terphenyl	64		"	49.8		128	50-150			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1K0814 - EPA 3550B

Matrix Spike (B1K0814-MS1)	Source: Y111137-01			Prepared: 11/08/2021 Analyzed: 11/10/2021						
Diesel (C10-C28)	962	50.0	mg/kg	1000	ND	96.2	70-130			
Residual Range Organics (C28-C40)	939	200	"	1000	ND	93.9	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.3	50-150			

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 Project: Bonanza - State Pronghorn CPF 41-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1K0814 - EPA 3550B

Matrix Spike Dup (B1K0814-MSD1)	Source: Y111137-01			Prepared: 11/08/2021 Analyzed: 11/10/2021						
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130	11.8	35	
Residual Range Organics (C28-C40)	1120	200	"	1000	ND	112	70-130	17.8	35	
<i>Surrogate: o-Terphenyl</i>	55		"	49.8		110	50-150			

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 Project: Bonanza - State Pronghorn CPF 41-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1K0823 - NO PREP

Blank (B1K0823-BLK1)

Prepared: 11/08/2021 Analyzed: 11/09/2021

Specific Conductance (EC) 0.00130 0.00500 mmhos/cm

Duplicate (B1K0823-DUP1)

Source: Y111141-01

Prepared: 11/08/2021 Analyzed: 11/09/2021

Specific Conductance (EC) 7.32 0.00500 mmhos/cm 7.64 4.16 25

Batch B1K0826 - NO PREP

Duplicate (B1K0826-DUP1)

Source: Y111135-13

Prepared: 11/08/2021 Analyzed: 11/09/2021

pH 7.68 pH Units 7.89 2.70 25

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L584066 - 3550B

MSD (L 95758-MSD-L584066)		Source: Y111138-06			Prepared: 11/10/2021 Analyzed: 11/10/2021					
Benzo(b)fluoranthene	0.114	0.00105	mg/Kg	0.162	<0.00105	70.3	30-130	0.8	30	
Naphthalene	0.0874	0.00234	"	0.162	<0.00234	53.9	30-130	2.4	30	
Indeno(1,2,3-cd)pyrene	0.0923	0.00145	"	0.162	<0.00145	56.9	30-130	2.7	30	
Fluorene	0.106	0.00145	"	0.162	<0.00145	65.4	30-130	0.9	30	
Fluoranthene	0.108	0.00195	"	0.162	<0.00195	66.6	30-130	1.8	30	
Dibenz(a,h)anthracene	0.103	0.0018	"	0.162	<0.00180	63.5	30-130	0	30	
1-Methylnaphthalene	0.0957	0.00165	"	0.162	<0.00165	59	30-130	1.2	30	
Benzo(k)fluoranthene	0.1	0.00065	"	0.162	<0.000650	61.7	30-130	0.9	30	
Benzo(a)pyrene	0.119	0.0007	"	0.162	<0.000700	73.4	30-130	3.3	30	
Benzo(a)anthracene	0.121	0.00205	"	0.162	<0.00205	74.6	30-130	1.6	30	
Anthracene	0.105	0.00165	"	0.162	<0.00165	64.8	30-130	2.8	30	
Acenaphthene	0.11	0.0015	"	0.162	<0.00150	67.9	30-130	1.8	30	
2-Methylnaphthalene	0.0884	0.00195	"	0.162	<0.00195	54.5	30-130	1.3	30	
Pyrene	0.105	0.00295	"	0.162	<0.00295	64.8	30-130	3.7	30	
Chrysene	0.125	0.00135	"	0.162	<0.00135	77.1	30-130	0	30	
Surrogate: Nitrobenzene-d5	39		"	0.325	118	39	29-110			
Surrogate: 4-Terphenyl-d14	70.1		"	0.325	202	70.1	33-122			
Surrogate: 2-Fluorobiphenyl	51.3		"	0.325	151	51.3	33-115			

MS (L 95758-MS-L584066)		Source: Y111138-06			Prepared: 11/10/2021 Analyzed: 11/10/2021					
Benzo(a)anthracene	0.123	0.00205	mg/Kg	0.166	<0.00205	74	30-130			
Indeno(1,2,3-cd)pyrene	0.0949	0.00145	"	0.166	<0.00145	57.1	30-130			
Fluorene	0.105	0.00145	"	0.166	<0.00145	63.2	30-130			
Fluoranthene	0.11	0.00195	"	0.166	<0.00195	66.2	30-130			
Dibenz(a,h)anthracene	0.103	0.0018	"	0.166	<0.00180	62	30-130			
Chrysene	0.125	0.00135	"	0.166	<0.00135	75.3	30-130			
Benzo(k)fluoranthene	0.101	0.00065	"	0.166	<0.000650	60.8	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 L584066 - 3550B

MS (L 95758-MS-L584066)		Source: Y111138-06			Prepared: 11/10/2021 Analyzed: 11/10/2021					
Benzo(a)pyrene	0.123	0.0007	mg/Kg	0.166	<0.000700	74	30-130			
Pyrene	0.109	0.00295	"	0.166	<0.00295	65.6	30-130			
Anthracene	0.108	0.00165	"	0.166	<0.00165	65	30-130			
Acenaphthene	0.108	0.0015	"	0.166	<0.00150	65	30-130			
2-Methylnaphthalene	0.0896	0.00195	"	0.166	<0.00195	53.9	30-130			
1-Methylnaphthalene	0.0969	0.00165	"	0.166	<0.00165	58.3	30-130			
Benzo(b)fluoranthene	0.113	0.00105	"	0.166	<0.00105	68	30-130			
Naphthalene	0.0896	0.00234	"	0.166	<0.00234	53.9	30-130			
Surrogate: Nitrobenzene-d5	38.2		"	0.332	118	38.2	29-110			
Surrogate: 4-Terphenyl-d14	72.2		"	0.332	202	72.2	33-122			
Surrogate: 2-Fluorobiphenyl	47.8		"	0.332	151	47.8	33-115			

LCS (LCS-L584066)		Prepared: 11/10/2021 Analyzed: 11/10/2021								
Benzo(b)fluoranthene	0.124	0.00021	mg/Kg	0.167		74.2	30-130			
Benzo(a)anthracene	0.131	0.00041	"	0.167		78.4	30-130			
Anthracene	0.117	0.00033	"	0.167		70	30-130			
Acenaphthene	0.115	0.0003	"	0.167		68.8	30-130			
2-Methylnaphthalene	0.106	0.00039	"	0.167		63.4	30-130			
Benzo(a)pyrene	0.138	0.00014	"	0.167		82.6	30-130			
Indeno(1,2,3-cd)pyrene	0.115	0.00029	"	0.167		68.8	30-130			
Benzo(k)fluoranthene	0.119	0.00013	"	0.167		71.2	30-130			
Chrysene	0.134	0.00027	"	0.167		80.2	30-130			
Dibenz(a,h)anthracene	0.134	0.00036	"	0.167		80.2	30-130			
Fluorene	0.118	0.00029	"	0.167		70.6	30-130			
Naphthalene	0.102	0.000467	"	0.167		61	30-130			
Pyrene	0.125	0.00059	"	0.167		74.8	30-130			
1-Methylnaphthalene	0.109	0.00033	"	0.167		65.2	30-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L584066 - 3550B

LCS (LCS-L584066)

Prepared: 11/10/2021 Analyzed: 11/10/2021

Fluoranthene	0.125	0.00039	mg/Kg	0.167		74.8	30-130			
Surrogate: 4-Terphenyl-d14	84.6		"	0.333		84.6	33-122			
Surrogate: 2-Fluorobiphenyl	60.3		"	0.333		60.3	33-115			
Surrogate: Nitrobenzene-d5	44.4		"	0.333		44.4	29-110			

LRB (LRB-L584066)

Prepared: 11/10/2021 Analyzed: 11/10/2021

Dibenz(a,h)anthracene	ND	0.00067	mg/Kg				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Chrysene	0.000348	0.00067	"				-			J
Benzo(k)fluoranthene	0.000414	0.00067	"				-			J
Benzo(b)fluoranthene	0.000576	0.00067	"				-			J
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	0.000604	0.00067	"				-			J
Pyrene	ND	0.00067	"				-			
Benzo(a)pyrene	0.000346	0.00067	"				-			J
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	44.4		"	0.333		44.4	29-110			
Surrogate: 4-Terphenyl-d14	79.2		"	0.333		79.2	33-122			
Surrogate: 2-Fluorobiphenyl	59.1		"	0.333		59.1	33-115			

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Martin C Eckert III
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 Project: Bonanza - State Pronghorn CPF 41-32

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L584044 - 3550B

MSD (L 95733-MSD-L584044)		Source: 95733			Prepared: 11/10/2021 Analyzed: 11/10/2021					
Benzo(k)fluoranthene	0.108	0.0013	mg/Kg	0.164	<0.00130	65.8	30-130	5.7	30	
Chrysene	0.158	0.0027	"	0.164	0.0448	69	30-130	1.2	30	
Fluoranthene	0.125	0.0039	"	0.164	<0.00390	76.2	30-130	3.9	30	
Fluorene	0.18	0.0029	"	0.164	0.0849	57.9	30-130	4.8	30	
Indeno(1,2,3-cd)pyrene	0.0943	0.0029	"	0.164	<0.00290	57.5	30-130	3.8	30	
Naphthalene	0.147	0.00467	"	0.164	0.0546	56.3	30-130	2	30	
Pyrene	0.137	0.0059	"	0.164	<0.00590	83.5	30-130	4.2	30	
Dibenz(a,h)anthracene	0.102	0.0036	"	0.164	<0.00360	62.1	30-130	2.8	30	
2-Methylnaphthalene	0.139	0.0039	"	0.164	0.0592	48.6	30-130	1.4	30	
Benzo(b)fluoranthene	0.103	0.0021	"	0.164	<0.00210	62.8	30-130	1.9	30	
Benzo(a)pyrene	0.131	0.0014	"	0.164	<0.00140	79.8	30-130	6.6	30	
Acenaphthene	0.125	0.003	"	0.164	0.00412	76.2	30-130	3.1	30	
Anthracene	0.113	0.0033	"	0.164	0.00527	68.9	30-130	5.1	30	
Benzo(a)anthracene	0.123	0.0041	"	0.164	<0.00410	75	30-130	4.7	30	
1-Methylnaphthalene	0.134	0.0033	"	0.164	0.05	51.2	30-130	2.2	30	
Surrogate: Nitrobenzene-d5	31.3		"	0.329	156	31.3	29-110			
Surrogate: 2-Fluorobiphenyl	61		"	0.329	202	61	33-115			
Surrogate: 4-Terphenyl-d14	75.9		"	0.329	244	75.9	33-122			

MS (L 95733-MS-L584044)		Source: 95733			Prepared: 11/10/2021 Analyzed: 11/10/2021					
Benzo(b)fluoranthene	0.105	0.0021	mg/Kg	0.167	<0.00210	62.8	30-130			
Benzo(a)anthracene	0.129	0.0041	"	0.167	<0.00410	77.2	30-130			
1-Methylnaphthalene	0.137	0.0033	"	0.167	0.05	52	30-130			
2-Methylnaphthalene	0.141	0.0039	"	0.167	0.0592	48.9	30-130			
Anthracene	0.119	0.0033	"	0.167	0.00527	71.2	30-130			
Benzo(a)pyrene	0.14	0.0014	"	0.167	<0.00140	83.8	30-130			
Pyrene	0.143	0.0059	"	0.167	<0.00590	85.6	30-130			

Origins Laboratory, Inc.



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

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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L584044 - 3550B

MS (L 95733-MS-L584044)	Source: 95733		Prepared: 11/10/2021 Analyzed: 11/10/2021							
Benzo(k)fluoranthene	0.102	0.0013	mg/Kg	0.167	<0.00130	61	30-130			
Naphthalene	0.15	0.00467	"	0.167	0.0546	57.1	30-130			
Indeno(1,2,3-cd)pyrene	0.098	0.0029	"	0.167	<0.00290	58.6	30-130			
Fluorene	0.189	0.0029	"	0.167	0.0849	62.3	30-130			
Dibenz(a,h)anthracene	0.105	0.0036	"	0.167	<0.00360	62.8	30-130			
Acenaphthene	0.129	0.003	"	0.167	0.00412	77.2	30-130			
Chrysene	0.16	0.0027	"	0.167	0.0448	68.9	30-130			
Fluoranthene	0.13	0.0039	"	0.167	<0.00390	77.8	30-130			
Surrogate: 2-Fluorobiphenyl	58.5		"	0.333	202	58.5	33-115			
Surrogate: 4-Terphenyl-d14	73.2		"	0.333	244	73.2	33-122			
Surrogate: Nitrobenzene-d5	33.9		"	0.333	156	33.9	29-110			

LCS (LCS-L584044)	Prepared: 11/10/2021 Analyzed: 11/10/2021									
2-Methylnaphthalene	0.102	0.00039	mg/Kg	0.167		61	30-130			
Fluorene	0.119	0.00029	"	0.167		71.2	30-130			
Fluoranthene	0.125	0.00039	"	0.167		74.8	30-130			
Dibenz(a,h)anthracene	0.122	0.00036	"	0.167		73	30-130			
Acenaphthene	0.113	0.0003	"	0.167		67.6	30-130			
Benzo(b)fluoranthene	0.115	0.00021	"	0.167		68.8	30-130			
Indeno(1,2,3-cd)pyrene	0.122	0.00029	"	0.167		73	30-130			
Chrysene	0.123	0.00027	"	0.167		73.6	30-130			
1-Methylnaphthalene	0.111	0.00033	"	0.167		66.4	30-130			
Benzo(a)pyrene	0.124	0.00014	"	0.167		74.2	30-130			
Pyrene	0.125	0.00059	"	0.167		74.8	30-130			
Anthracene	0.119	0.00033	"	0.167		71.2	30-130			
Benzo(a)anthracene	0.122	0.00041	"	0.167		73	30-130			
Benzo(k)fluoranthene	0.125	0.00013	"	0.167		74.8	30-130			

Origins Laboratory, Inc.



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

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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L584044 - 3550B

LCS (LCS-L584044)

Prepared: 11/10/2021 Analyzed: 11/10/2021

Naphthalene	0.103	0.000467	mg/Kg	0.167		61.6	30-130			
Surrogate: 2-Fluorobiphenyl	61.2		"	0.333		61.2	33-115			
Surrogate: 4-Terphenyl-d14	71.1		"	0.333		71.1	33-122			
Surrogate: Nitrobenzene-d5	48		"	0.333		48	29-110			

LRB (LRB-L584044)

Prepared: 11/10/2021 Analyzed: 11/10/2021

Pyrene	ND	0.00067	mg/Kg				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	46.5		"	0.333		46.5	29-110			
Surrogate: 2-Fluorobiphenyl	60.6		"	0.333		60.6	33-115			
Surrogate: 4-Terphenyl-d14	72.9		"	0.333		72.9	33-122			

Origins Laboratory, Inc.



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

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

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

Total Metals by 6020B - 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 L583871 - 3050B

MSD (L 95758-MSD-L583871)		Source: Y111138-06			Prepared: 11/10/2021 Analyzed: 11/11/2021					
Arsenic	3.89	0.0855	mg/Kg	2.45	2.01	77	75-125	47.8	80	
Barium	49.6	0.042	"	4.9	50.9	NR	75-125	0.4	80	*
Copper	4.66	0.0806	"	2.45	2.28	97	75-125	15	80	
Lead	5.93	0.031	"	2.45	3.51	99	75-125	11.4	80	
Nickel	5.32	0.0633	"	2.45	2.89	99	75-125	7.4	80	
Selenium	4.34	0.103	"	4.9	0.198	89	75-125	11.7	80	
Silver	0.491	0.0067	"	0.49	0.00904	100	75-125	7.3	80	
Zinc	36.7	0.534	"	24.5	12.1	100	75-125	2.4	80	
Cadmium	0.457	0.0259	"	0.49	<0.0259	93	75-125	0.6	80	

MS (L 95758-MS-L583871)		Source: Y111138-06			Prepared: 11/10/2021 Analyzed: 11/10/2021					
Zinc	37.6	0.534	mg/Kg	23.7	12.1	108	75-125			
Nickel	5.73	0.0633	"	2.37	2.89	120	75-125			
Lead	6.65	0.031	"	2.37	3.51	133	75-125			*
Arsenic	6.34	0.0855	"	2.37	2.01	183	75-125			*
Barium	49.8	0.042	"	4.73	50.9	NR	75-125			*
Cadmium	0.46	0.0259	"	0.473	<0.0259	97	75-125			
Silver	0.456	0.0067	"	0.473	0.00904	96	75-125			
Copper	5.42	0.0806	"	2.37	2.28	133	75-125			*
Selenium	3.86	0.103	"	4.73	0.198	82	75-125			

LCS (LCS-L583871)		Prepared: 11/10/2021 Analyzed: 11/10/2021								
Lead	2.48	0.031	mg/Kg	2.5		99	80-120			
Cadmium	0.483	0.0259	"	0.5		97	80-120			
Zinc	22.6	0.534	"	25		90	80-120			
Silver	0.473	0.0067	"	0.5		95	80-120			
Selenium	4.66	0.103	"	5		93	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 - State Pronghorn CPF 41-32

Total Metals by 6020B - 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 L583871 - 3050B

LCS (LCS-L583871)

Prepared: 11/10/2021 Analyzed: 11/10/2021

Nickel	2.36	0.0633	mg/Kg	2.5		94	80-120			
Copper	2.38	0.0806	"	2.5		95	80-120			
Arsenic	2.47	0.0855	"	2.5		99	80-120			
Barium	4.75	0.042	"	5		95	80-120			

LRB (LRB-L583871)

Prepared: 11/10/2021 Analyzed: 11/10/2021

Barium	0.14	0.25	mg/Kg				-			J
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	0.263	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 - State Pronghorn CPF 41-32

Total Metals by 7196A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L583964 -										
DUP (L 91479-DUP)		Source: 91479			Prepared: Analyzed: 11/10/2021					
Chromium, Hexavalent	ND	0.488	mg/Kg		<1.00		-	0	20	
MS (L 91479-MS)		Source: 91479			Prepared: Analyzed: 11/10/2021					
Chromium, Hexavalent	5.91	0.488	mg/Kg	8.03	<0.488	74	75-125			*
LCS (LCS)					Prepared: Analyzed: 11/10/2021					
Chromium, Hexavalent	6.03	0.244	mg/Kg	8		75	75-125			
LRB (LRB)					Prepared: Analyzed: 11/10/2021					
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 - State Pronghorn CPF 41-32

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.

 - 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.

 - * 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.



December 21, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

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

Attached are your analytical results for Bonanza - State Pronghorn CPF 41-32 received by Origins Laboratory, Inc. December 14, 2021. This project is associated with Origins project number Y112332-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

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

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@5'	Y112332-01	Soil	November 22, 2021 11:35	12/14/2021 13:10

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y112382

Client: Eagle

Client Project ID: State Pronghorn CPF

Checklist Completed by: JG

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

Date/time completed: 12/14/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 12.7 °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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) Jm

Date/Time Reviewed 12-15-12

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

Background-01@5'
11/22/2021 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y112332-01 (Soil)

Total Metals by 6020B

Arsenic	2.29	0.0855	0.25	mg/Kg	5	L590290	12/15/2021	12/16/2021	
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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: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

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
Batch L590290 - 3050B										
MSD (L 98228-MSD-L590290)		Source: 98228			Prepared: 12/15/2021 Analyzed: 12/18/2021					
Arsenic	5.72	0.0855	mg/Kg	2.48	2.67	123	75-125	54.5	80	
MS (L 98228-MS-L590290)		Source: 98228			Prepared: 12/15/2021 Analyzed: 12/18/2021					
Arsenic	3.27	0.0855	mg/Kg	2.37	2.67	25	75-125			*
LCS (LCS-L590290)		Prepared: 12/15/2021 Analyzed: 12/18/2021								
Arsenic	2.46	0.0855	mg/Kg	2.5		98	80-120			
LRB (LRB-L590290)		Prepared: 12/15/2021 Analyzed: 12/16/2021								
Arsenic	ND	0.25	mg/Kg				-			

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

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.



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.



January 20, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

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

Attached are your analytical results for Bonanza - State Pronghorn CPF 41-32 received by Origins Laboratory, Inc. January 13, 2022. This project is associated with Origins project number Y201251-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

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

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-CS-01@8'	Y201251-01	Soil	January 13, 2022 13:40	01/13/2022 17:20
PW-CS-02@8'	Y201251-02	Soil	January 13, 2022 13:44	01/13/2022 17:20
PW-CS-03@8'	Y201251-03	Soil	January 13, 2022 13:47	01/13/2022 17:20
PW-CS-04@8'	Y201251-04	Soil	January 13, 2022 13:51	01/13/2022 17:20
PW-CS-FS-01@9'	Y201251-05	Soil	January 13, 2022 14:12	01/13/2022 17:20
PW-CS-05@3'	Y201251-06	Soil	January 13, 2022 14:00	01/13/2022 17:20
PW-CS-06@3'	Y201251-07	Soil	January 13, 2022 14:05	01/13/2022 17:20
PW-CS-07@3'	Y201251-08	Soil	January 13, 2022 14:09	01/13/2022 17:20
PW-CS-FS-02@4'	Y201251-09	Soil	January 13, 2022 14:16	01/13/2022 17:20

Origins Laboratory, Inc.



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

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

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y201251

Client: Eagle
 Client Project ID: State Pronghorn CPF 41-32

Checklist Completed by: JG
 Date/time completed: 1/14/22

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

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 27 °C _____ °C _____ °C _____ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JG

Date/Time Reviewed 1/17/22

Origins Laboratory, Inc.



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

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

PW-CS-01@8'
1/13/2022 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201251-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.201	mg/L	1	B2A1419	CW	01/14/2022	01/17/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2A1429	ZZZ	01/14/2022	01/17/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	141 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2A1702	ZZZ	01/17/2022	01/18/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	91.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.1 %	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: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-CS-01@8'
1/13/2022 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201251-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.04	0.499	meq/L	10	[CALC]	KAP	01/14/2022	01/19/2022	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L594842		01/17/2022	01/18/2022	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	

Origins Laboratory, Inc.



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

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

PW-CS-01@8'
1/13/2022 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201251-01 (Soil)

PAH by 8270D SIM

Pyrene	ND	0.00067	mg/Kg	1	L594842		01/17/2022	01/18/2022	
Surrogate: 2-Fluorobiphenyl	60.4 %		33-115		"	"	"	"	"
Surrogate: 4-Terphenyl-d14	69.6 %		33-122		"	"	"	"	"
Surrogate: Nitrobenzene-d5	63.2 %		29-110		"	"	"	"	"

pH in Soil by 9045D

pH	8.10		pH Units	1	B2A1422	ACC	01/14/2022	01/18/2022	
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SAR by 20B Saturated Paste

SAR	0.393		SAR	1	B2A1417	KAP	01/14/2022	01/19/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.202	0.00500	mmhos/cm	1	B2A1424	ACC	01/14/2022	01/18/2022	
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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 - State Pronghorn CPF 41-32

PW-CS-02@8'
1/13/2022 1:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201251-02 (Soil)

Boron (DTPA Sorbitol)

Boron	2.28	0.200	mg/L	1	B2A1419	CW	01/14/2022	01/17/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2A1429	ZZZ	01/14/2022	01/17/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	126 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2A1702	ZZZ	01/17/2022	01/18/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	120 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	91.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.7 %	70-130			"	"	"	"	

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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

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

PW-CS-02@8'
1/13/2022 1:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201251-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.644	0.499	meq/L	10	[CALC]	KAP	01/14/2022	01/19/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	55.1	0.435	"	"	"	KAP	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L594842		01/17/2022	01/18/2022
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"
Chrysene	ND	0.00067	"	"	"		"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"
Fluoranthene	ND	0.00067	"	"	"		"	"
Fluorene	ND	0.00067	"	"	"		"	"
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"
Naphthalene	ND	0.00067	"	"	"		"	"
Pyrene	ND	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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

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

PW-CS-02@8'

1/13/2022 1:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201251-02 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	55.8 %	33-115			L5948 42		01/17/2022	01/18/2022	
Surrogate: 4-Terphenyl-d14	67.6 %	33-122			"		"	"	
Surrogate: Nitrobenzene-d5	59.1 %	29-110			"		"	"	

pH in Soil by 9045D

pH	8.47		pH Units	1	B2A1422	ACC	01/14/2022	01/18/2022	
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SAR by 20B Saturated Paste

SAR	86.2		SAR	1	B2A1417	KAP	01/14/2022	01/19/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.82	0.00500	mmhos/cm	1	B2A1424	ACC	01/14/2022	01/18/2022	
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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 - State Pronghorn CPF 41-32

PW-CS-03@8'
1/13/2022 1:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201251-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.197	0.197	mg/L	1	B2A1419	CW	01/14/2022	01/17/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2A1429	ZZZ	01/14/2022	01/17/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	93.0 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2A1702	ZZZ	01/17/2022	01/19/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	91.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.0 %	70-130			"	"	"	"	

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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

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

PW-CS-03@8'
1/13/2022 1:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201251-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.83	0.499	meq/L	10	[CALC]	KAP	01/14/2022	01/18/2022	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	3.92	0.435	"	"	"	KAP	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000841	0.00067	mg/Kg	1	L594842		01/17/2022	01/18/2022	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	0.000602	0.00067	"	"	"		"	"	J
Anthracene	0.00218	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.000648	0.00067	"	"	"		"	"	J
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.00645	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	0.000512	0.00067	"	"	"		"	"	J
Fluorene	0.00432	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.00313	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: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-CS-03@8'

1/13/2022 1:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201251-03 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	48.5 %	33-115			L5948 42		01/17/2022	01/18/2022	
Surrogate: 4-Terphenyl-d14	61.5 %	33-122			"		"	"	
Surrogate: Nitrobenzene-d5	51.5 %	29-110			"		"	"	

pH in Soil by 9045D

pH	8.02		pH Units	1	B2A1422	ACC	01/14/2022	01/18/2022	
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SAR by 20B Saturated Paste

SAR	3.44		SAR	1	B2A1417	KAP	01/14/2022	01/18/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.749	0.00500	mmhos/cm	1	B2A1424	ACC	01/14/2022	01/18/2022	
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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 - State Pronghorn CPF 41-32

PW-CS-04@8'
1/13/2022 1:51:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201251-04 (Soil)

Boron (DTPA Sorbitol)

Boron	1.55	0.199	mg/L	1	B2A1419	CW	01/14/2022	01/17/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	2100	25.0	mg/kg	1	B2A1429	ZZZ	01/14/2022	01/17/2022	
Residual Range Organics (C28-C40)	821	100	"	"	"	ZZZ	"	"	

Surrogate: o-Terphenyl	130 %	50-150			"	"		"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.231	0.00200	mg/kg	1	B2A1702	ZZZ	01/17/2022	01/19/2022	
1,3,5-Trimethylbenzene	0.502	0.0500	"	25	"	ZZZ	"	01/20/2022	
Benzene	ND	0.00200	"	1	"	ZZZ	"	01/19/2022	U
Ethylbenzene	0.00456	0.00200	"	"	"	ZZZ	"	"	
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	0.466	0.0500	"	25	"	ZZZ	"	01/20/2022	
Gasoline Range Hydrocarbons	88.1	5.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130			"	"		"	
Surrogate: Toluene-d8	92.9 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"		"	

Metals by Saturated Paste by EPA 6010

Calcium	1.19	0.499	meq/L	10	[CALC]	KAP	01/14/2022	01/18/2022	
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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 - State Pronghorn CPF 41-32

PW-CS-04@8'
1/13/2022 1:51:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201251-04 (Soil)

Metals by Saturated Paste by EPA 6010

Magnesium	ND	0.823	meq/L	10	[CALC]	KAP	01/14/2022	01/18/2022	
Sodium	34.8	0.435	"	"	"	KAP	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	1.97	0.0134	mg/Kg	20	L594842		01/17/2022	01/18/2022	
2-Methylnaphthalene	0.309	0.0134	"	"	"		"	"	
Acenaphthene	0.09	0.0134	"	"	"		"	"	
Anthracene	0.0241	0.0134	"	"	"		"	"	
Benzo(a)anthracene	0.0499	0.0134	"	"	"		"	"	
Benzo(a)pyrene	ND	0.0134	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.0134	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.0134	"	"	"		"	"	
Chrysene	0.069	0.0134	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.0134	"	"	"		"	"	
Fluoranthene	0.00923	0.0134	"	"	"		"	"	J
Fluorene	0.318	0.0134	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.0134	"	"	"		"	"	
Naphthalene	0.0636	0.0134	"	"	"		"	"	
Pyrene	0.0701	0.0134	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	66.9 %	33-115			"		"	"	
Surrogate: 4-Terphenyl-d14	80.7 %	33-122			"		"	"	

Origins Laboratory, Inc.



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

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

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

PW-CS-04@8'
1/13/2022 1:51:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201251-04 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	78.2 %	29-110			L5948 42	01/17/2022	01/18/2022
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pH in Soil by 9045D

pH	7.86		pH Units	1	B2A1422	ACC	01/14/2022	01/18/2022
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SAR by 20B Saturated Paste

SAR	40.3		SAR	1	B2A1417	KAP	01/14/2022	01/18/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.89	0.00500	mmhos/cm	1	B2A1424	ACC	01/14/2022	01/18/2022
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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 - State Pronghorn CPF 41-32

PW-CS-FS-01@9'
1/13/2022 2:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201251-05 (Soil)

Boron (DTPA Sorbitol)

Boron	1.54	0.200	mg/L	1	B2A1419	CW	01/14/2022	01/17/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	53.1	25.0	mg/kg	1	B2A1429	ZZZ	01/14/2022	01/17/2022	
Residual Range Organics (C28-C40)	177	100	"	"	"	ZZZ	"	"	

Surrogate: o-Terphenyl	104 %	50-150			"	"			
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2A1702	ZZZ	01/17/2022	01/20/2022	U
1,3,5-Trimethylbenzene	0.0101	0.00200	"	"	"	ZZZ	"	"	
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"			
Surrogate: Toluene-d8	91.1 %	70-130			"	"			
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"			

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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

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

PW-CS-FS-01@9'
1/13/2022 2:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201251-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	01/14/2022	01/18/2022	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	23.0	0.435	"	"	"	KAP	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0955	0.00067	mg/Kg	1	L594842		01/17/2022	01/18/2022	
2-Methylnaphthalene	0.00397	0.00067	"	"	"		"	"	
Acenaphthene	0.00736	0.00067	"	"	"		"	"	
Anthracene	0.00218	0.00067	"	"	"		"	"	
Benzo(a)anthracene	0.00158	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000716	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.00116	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.0154	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	0.00106	0.00067	"	"	"		"	"	
Fluorene	0.0277	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	0.00341	0.00067	"	"	"		"	"	
Pyrene	0.00643	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl 46.9 % 33-115 " " "

Origins Laboratory, Inc.



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

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

PW-CS-FS-01@9'
 1/13/2022 2:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
 Y201251-05 (Soil)

PAH by 8270D SIM

Surrogate: 4-Terphenyl-d14	57.4 %	33-122			L5948 42		01/17/2022	01/18/2022	
Surrogate: Nitrobenzene-d5	50 %	29-110			"		"	"	

pH in Soil by 9045D

pH	8.31		pH Units	1	B2A1422	ACC	01/14/2022	01/18/2022	
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SAR by 20B Saturated Paste

SAR	44.1		SAR	1	B2A1417	KAP	01/14/2022	01/18/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.69	0.00500	mmhos/cm	1	B2A1424	ACC	01/14/2022	01/18/2022	
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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 - State Pronghorn CPF 41-32

PW-CS-05@3'
1/13/2022 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201251-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.200	mg/L	1	B2A1419	CW	01/14/2022	01/17/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2A1429	EPC	01/14/2022	01/17/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: <i>o</i> -Terphenyl	92.2 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2A1702	ZZZ	01/17/2022	01/19/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	90.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	91.2 %	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: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-CS-05@3'
1/13/2022 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201251-06 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.08	0.499	meq/L	10	[CALC]	KAP	01/14/2022	01/18/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L594842		01/17/2022	01/18/2022
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"
Chrysene	ND	0.00067	"	"	"		"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"
Fluoranthene	ND	0.00067	"	"	"		"	"
Fluorene	ND	0.00067	"	"	"		"	"
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"
Naphthalene	ND	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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

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

PW-CS-05@3'
1/13/2022 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201251-06 (Soil)

PAH by 8270D SIM

Pyrene	ND	0.00067	mg/Kg	1	L594842		01/17/2022	01/18/2022	
Surrogate: 2-Fluorobiphenyl	54 %		33-115		"	"	"	"	"
Surrogate: 4-Terphenyl-d14	70.7 %		33-122		"	"	"	"	"
Surrogate: Nitrobenzene-d5	61.6 %		29-110		"	"	"	"	"

pH in Soil by 9045D

pH	8.13		pH Units	1	B2A1422	ACC	01/14/2022	01/18/2022	
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SAR by 20B Saturated Paste

SAR	0.380		SAR	1	B2A1417	KAP	01/14/2022	01/18/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.182	0.00500	mmhos/cm	1	B2A1424	ACC	01/14/2022	01/18/2022	
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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 - State Pronghorn CPF 41-32

PW-CS-06@3'
1/13/2022 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201251-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.201	mg/L	1	B2A1419	CW	01/14/2022	01/17/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2A1429	EPC	01/14/2022	01/17/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: <i>o</i> -Terphenyl	93.7 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2A1702	ZZZ	01/17/2022	01/19/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	91.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	90.8 %	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: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-CS-06@3'
1/13/2022 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201251-07 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.73	0.499	meq/L	10	[CALC]	KAP	01/14/2022	01/18/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	0.731	0.435	"	"	"	KAP	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00335	mg/Kg	5	L594842		01/17/2022	01/18/2022
2-Methylnaphthalene	ND	0.00335	"	"	"		"	"
Acenaphthene	ND	0.00335	"	"	"		"	"
Anthracene	ND	0.00335	"	"	"		"	"
Benzo(a)anthracene	ND	0.00335	"	"	"		"	"
Benzo(a)pyrene	ND	0.00335	"	"	"		"	"
Benzo(b)fluoranthene	ND	0.00335	"	"	"		"	"
Benzo(k)fluoranthene	ND	0.00335	"	"	"		"	"
Chrysene	ND	0.00335	"	"	"		"	"
Dibenz(a,h)anthracene	ND	0.00335	"	"	"		"	"
Fluoranthene	ND	0.00335	"	"	"		"	"
Fluorene	ND	0.00335	"	"	"		"	"
Indeno(1,2,3-cd)pyrene	ND	0.00335	"	"	"		"	"
Naphthalene	ND	0.00335	"	"	"		"	"
Pyrene	ND	0.00335	"	"	"		"	"

Origins Laboratory, Inc.



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

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

PW-CS-06@3'
1/13/2022 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201251-07 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	53.8 %	33-115			L5948 42		01/17/2022	01/18/2022	
Surrogate: 4-Terphenyl-d14	69.7 %	33-122			"		"	"	
Surrogate: Nitrobenzene-d5	57.8 %	29-110			"		"	"	

pH in Soil by 9045D

pH	7.98		pH Units	1	B2A1422	ACC	01/14/2022	01/18/2022	
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SAR by 20B Saturated Paste

SAR	0.567		SAR	1	B2A1417	KAP	01/14/2022	01/18/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.443	0.00500	mmhos/cm	1	B2A1424	ACC	01/14/2022	01/18/2022	
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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 - State Pronghorn CPF 41-32

PW-CS-07@3'
1/13/2022 2:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201251-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B2A1704	CW	01/17/2022	01/18/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2A1429	EPC	01/14/2022	01/17/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: <i>o</i> -Terphenyl	93.9 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2A1702	ZZZ	01/17/2022	01/19/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	92.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.9 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

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

PW-CS-07@3'
1/13/2022 2:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201251-08 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.53	0.499	meq/L	10	[CALC]	KAP	01/14/2022	01/18/2022	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L594842		01/17/2022	01/18/2022	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000529	0.00067	"	"	"		"	"	J
Benzo(b)fluoranthene	0.000618	0.00067	"	"	"		"	"	J
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Origins Laboratory, Inc.



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

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

PW-CS-07@3'
1/13/2022 2:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201251-08 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	52.3 %	33-115			L5948 42		01/17/2022	01/18/2022	
Surrogate: 4-Terphenyl-d14	66.3 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	56.2 %	29-110			"	"	"	"	

pH in Soil by 9045D

pH	8.14		pH Units	1	B2A1422	ACC	01/14/2022	01/18/2022	
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SAR by 20B Saturated Paste

SAR	0.306		SAR	1	B2A1417	KAP	01/14/2022	01/18/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.261	0.00500	mmhos/cm	1	B2A1424	ACC	01/14/2022	01/18/2022	
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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 - State Pronghorn CPF 41-32

PW-CS-FS-02@4'
1/13/2022 2:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201251-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.196	mg/L	1	B2A1704	CW	01/17/2022	01/18/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2A1429	EPC	01/14/2022	01/17/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: <i>o</i> -Terphenyl	83.0 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2A1702	ZZZ	01/17/2022	01/19/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	92.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.4 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

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

PW-CS-FS-02@4'
1/13/2022 2:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201251-09 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	5.43	0.499	meq/L	10	[CALC]	KAP	01/14/2022	01/18/2022
Magnesium	1.53	0.823	"	"	"	KAP	"	"
Sodium	3.12	0.435	"	"	"	KAP	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L594842		01/17/2022	01/18/2022
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"
Chrysene	ND	0.00067	"	"	"		"	"
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"
Fluoranthene	ND	0.00067	"	"	"		"	"
Fluorene	ND	0.00067	"	"	"		"	"
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"
Naphthalene	ND	0.00067	"	"	"		"	"
Pyrene	ND	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

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

PW-CS-FS-02@4'
1/13/2022 2:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201251-09 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	50.6 %	33-115			L5948 42		01/17/2022	01/18/2022	
Surrogate: 4-Terphenyl-d14	65.6 %	33-122			"		"	"	
Surrogate: Nitrobenzene-d5	56.4 %	29-110			"		"	"	

pH in Soil by 9045D

pH	7.92		pH Units	1	B2A1422	ACC	01/14/2022	01/18/2022	
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SAR by 20B Saturated Paste

SAR	1.67		SAR	1	B2A1417	KAP	01/14/2022	01/18/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.18	0.00500	mmhos/cm	1	B2A1424	ACC	01/14/2022	01/18/2022	
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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2A1429 - EPA 3550B										
Blank (B2A1429-BLK1)										
					Prepared: 01/14/2022 Analyzed: 01/14/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		92.0	50-150			

Origins Laboratory, Inc.



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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2A1429 - EPA 3550B

LCS (B2A1429-BS1)

Prepared: 01/14/2022 Analyzed: 01/14/2022

Diesel (C10-C28)	1080	50.0	mg/kg	1000		108	70-130			
Residual Range Organics (C28-C40)	919	200	"	1000		91.9	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2A1429 - EPA 3550B

Matrix Spike (B2A1429-MS1)	Source: Y201265-01			Prepared: 01/14/2022 Analyzed: 01/15/2022						
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130			
Residual Range Organics (C28-C40)	933	200	"	1000	ND	93.3	70-130			
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2A1429 - EPA 3550B

Matrix Spike Dup (B2A1429-MSD1)	Source: Y201265-01		Prepared: 01/14/2022 Analyzed: 01/15/2022							
Diesel (C10-C28)	959	50.0	mg/kg	1000	ND	95.9	70-130	11.1	35	
Residual Range Organics (C28-C40)	772	200	"	1000	ND	77.2	70-130	18.9	35	
Surrogate: o-Terphenyl	39		"	49.8		77.7	50-150			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2A1702 - EPA 5030 (soil)

Blank (B2A1702-BLK1)

Prepared: 01/17/2022 Analyzed: 01/18/2022

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
m,p-Xylene	ND	0.00400	"							U
o-Xylene	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	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.0	70-130			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2A1702 - EPA 5030 (soil)

LCS (B2A1702-BS1)

Prepared: 01/17/2022 Analyzed: 01/18/2022

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
Naphthalene	0.107	0.0100	"	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.119	0.00200	"	0.100		119	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.213	0.00400	"	0.200		107	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
Toluene	0.111	0.00200	"	0.100		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.5	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: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2A1702 - EPA 5030 (soil)

Matrix Spike (B2A1702-MS1)	Source: Y201212-01			Prepared: 01/17/2022 Analyzed: 01/19/2022						
1,2,4-Trimethylbenzene	0.0887	0.00200	mg/kg	0.100	ND	88.7	70-130			
Naphthalene	0.0962	0.0100	"	0.100	ND	96.2	70-130			
1,3,5-Trimethylbenzene	0.0889	0.00200	"	0.100	ND	88.9	70-130			
Benzene	0.106	0.00200	"	0.100	ND	106	70-130			
Ethylbenzene	0.0841	0.00200	"	0.100	ND	84.1	70-130			
m,p-Xylene	0.178	0.00400	"	0.200	ND	89.0	70-130			
o-Xylene	0.0885	0.00200	"	0.100	ND	88.5	70-130			
Toluene	0.0967	0.00200	"	0.100	ND	96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.5	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: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2A1702 - EPA 5030 (soil)

Matrix Spike Dup (B2A1702-MSD1)	Source: Y201212-01			Prepared: 01/17/2022 Analyzed: 01/19/2022						
1,2,4-Trimethylbenzene	0.0899	0.00200	mg/kg	0.100	ND	89.9	70-130	1.25	20	
Naphthalene	0.0990	0.0100	"	0.100	ND	99.0	70-130	2.91	20	
1,3,5-Trimethylbenzene	0.0906	0.00200	"	0.100	ND	90.6	70-130	1.89	20	
Benzene	0.106	0.00200	"	0.100	ND	106	70-130	0.472	20	
Ethylbenzene	0.0868	0.00200	"	0.100	ND	86.8	70-130	3.21	20	
m,p-Xylene	0.183	0.00400	"	0.200	ND	91.7	70-130	2.93	20	
o-Xylene	0.0905	0.00200	"	0.100	ND	90.5	70-130	2.32	20	
Toluene	0.0974	0.00200	"	0.100	ND	97.4	70-130	0.660	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.7	70-130			

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

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

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 L594842 - 3550B

MSD (L 96446-MSD-L594842)		Source: 96446			Prepared: 01/17/2022 Analyzed: 01/18/2022					
Naphthalene	0.0854	0.000484	mg/Kg	0.166	<0.000484	51.4	30-130	17.7	30	
Pyrene	0.105	0.000643	"	0.166	<0.000643	63.2	30-130	16.5	30	
Indeno(1,2,3-cd)pyrene	0.107	0.000627	"	0.166	<0.000627	64.4	30-130	14.7	30	
Fluorene	0.101	0.000286	"	0.166	<0.000286	60.8	30-130	13.8	30	
Fluoranthene	0.106	0.000394	"	0.166	<0.000394	63.8	30-130	16.4	30	
Dibenz(a,h)anthracene	0.125	0.000614	"	0.166	<0.000614	75.3	30-130	13.4	30	
Chrysene	0.123	0.000624	"	0.166	<0.000624	74	30-130	14.3	30	
Benzo(k)fluoranthene	0.113	0.000437	"	0.166	<0.000437	68	30-130	18.4	30	
Benzo(a)pyrene	0.124	0.000468	"	0.166	<0.000468	74.6	30-130	11.4	30	
Benzo(a)anthracene	0.115	0.000493	"	0.166	<0.000493	69.2	30-130	14.5	30	
1-Methylnaphthalene	0.0903	0.000364	"	0.166	<0.000364	54.3	30-130	17.8	30	
Anthracene	0.098	0.000334	"	0.166	<0.000334	59	30-130	15.9	30	
2-Methylnaphthalene	0.0935	0.000645	"	0.166	<0.000645	56.3	30-130	13.4	30	
Acenaphthene	0.0979	0.000304	"	0.166	<0.000304	58.9	30-130	17.7	30	
Benzo(b)fluoranthene	0.103	0.000585	"	0.166	<0.000585	62	30-130	15.2	30	
Surrogate: Nitrobenzene-d5	60.4		"	0.331	203	60.4	29-110			
Surrogate: 4-Terphenyl-d14	67.9		"	0.331	230	67.9	33-122			
Surrogate: 2-Fluorobiphenyl	52.2		"	0.331	190	52.2	33-115			

MS (L 96446-MS-L594842)		Source: 96446			Prepared: 01/17/2022 Analyzed: 01/18/2022					
Benzo(k)fluoranthene	0.136	0.000437	mg/Kg	0.166	<0.000437	81.9	30-130			
Chrysene	0.142	0.000624	"	0.166	<0.000624	85.5	30-130			
Dibenz(a,h)anthracene	0.143	0.000614	"	0.166	<0.000614	86.1	30-130			
Fluoranthene	0.125	0.000394	"	0.166	<0.000394	75.3	30-130			
Indeno(1,2,3-cd)pyrene	0.124	0.000627	"	0.166	<0.000627	74.6	30-130			
Anthracene	0.115	0.000334	"	0.166	<0.000334	69.2	30-130			
Naphthalene	0.102	0.000484	"	0.166	<0.000484	61.4	30-130			

Origins Laboratory, Inc.



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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L594842 - 3550B

MS (L 96446-MS-L594842)		Source: 96446			Prepared: 01/17/2022 Analyzed: 01/18/2022					
Fluorene	0.116	0.000286	mg/Kg	0.166	<0.000286	69.8	30-130			
Benzo(b)fluoranthene	0.12	0.000585	"	0.166	<0.000585	72.2	30-130			
Benzo(a)anthracene	0.133	0.000493	"	0.166	<0.000493	80.1	30-130			
Acenaphthene	0.117	0.000304	"	0.166	<0.000304	70.4	30-130			
2-Methylnaphthalene	0.107	0.000645	"	0.166	<0.000645	64.4	30-130			
Pyrene	0.124	0.000643	"	0.166	<0.000643	74.6	30-130			
1-Methylnaphthalene	0.108	0.000364	"	0.166	<0.000364	65	30-130			
Benzo(a)pyrene	0.139	0.000468	"	0.166	<0.000468	83.7	30-130			
Surrogate: Nitrobenzene-d5	62.2		"	0.331	203	62.2	29-110			
Surrogate: 2-Fluorobiphenyl	55.8		"	0.331	190	55.8	33-115			
Surrogate: 4-Terphenyl-d14	71.2		"	0.331	230	71.2	33-122			

LCS (LCS-L594842)		Prepared: 01/17/2022 Analyzed: 01/18/2022								
Chrysene	0.131	0.000624	mg/Kg	0.167		78.4	30-130			
Benzo(k)fluoranthene	0.121	0.000437	"	0.167		72.4	30-130			
Pyrene	0.111	0.000643	"	0.167		66.4	30-130			
Naphthalene	0.0943	0.000484	"	0.167		56.4	30-130			
Indeno(1,2,3-cd)pyrene	0.107	0.000627	"	0.167		64	30-130			
Fluorene	0.108	0.000286	"	0.167		64.6	30-130			
Benzo(b)fluoranthene	0.107	0.000585	"	0.167		64	30-130			
Dibenz(a,h)anthracene	0.123	0.000614	"	0.167		73.6	30-130			
1-Methylnaphthalene	0.0971	0.000364	"	0.167		58.1	30-130			
Benzo(a)pyrene	0.13	0.000468	"	0.167		77.8	30-130			
Benzo(a)anthracene	0.123	0.000493	"	0.167		73.6	30-130			
Anthracene	0.108	0.000334	"	0.167		64.6	30-130			
Acenaphthene	0.105	0.000304	"	0.167		62.8	30-130			
2-Methylnaphthalene	0.0978	0.000645	"	0.167		58.5	30-130			

Origins Laboratory, Inc.



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

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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L594842 - 3550B

LCS (LCS-L594842)

Prepared: 01/17/2022 Analyzed: 01/18/2022

Fluoranthene	0.113	0.000394	mg/Kg	0.167		67.6	30-130			
Surrogate: Nitrobenzene-d5	61.2		"	0.333		61.2	29-110			
Surrogate: 4-Terphenyl-d14	71.1		"	0.333		71.1	33-122			
Surrogate: 2-Fluorobiphenyl	57		"	0.333		57	33-115			

LRB (LRB-L594842)

Prepared: 01/17/2022 Analyzed: 01/18/2022

Fluorene	ND	0.00067	mg/Kg				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	57.9		"	0.333		57.9	29-110			
Surrogate: 4-Terphenyl-d14	67.5		"	0.333		67.5	33-122			
Surrogate: 2-Fluorobiphenyl	60.3		"	0.333		60.3	33-115			

Origins Laboratory, Inc.



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

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

Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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 05, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

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

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

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

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

CROSS REFERENCE REPORT

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

Origins Laboratory, Inc.



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

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

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

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: Y00354

Client: Eagle/Bonanza
 Client Project ID: State Pronghorn

Checklist Completed by: JTB
 Date/time completed: 6-15-12

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

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 11-3.c / _____ °C / _____ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 8°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JTB

Date/Time Reviewed 6/16/12

Origins Laboratory, Inc.

JTB

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

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

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

PW-CS-08@8.5'

6/14/2022 12:50:00PM

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

Boron (DTPA Sorbitol)

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

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

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

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

Surrogate: 1,2-Dichloroethane-d4	97.8 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

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

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

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

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

GBTEX+TMBs by 8260D

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

Metals by Saturated Paste by EPA 6010

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

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L622188	06/16/2022	06/20/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

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

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

PW-CS-08@8.5'

6/14/2022 12:50:00PM

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

PAH by 8270D SIM

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

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

pH in Soil by 9045D

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

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

Specific Conductance (EC)	0.122		0.00500	mmhos/cm	1	B2F1525	06/15/2022	06/16/2022	
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Origins Laboratory, Inc.



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

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

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

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

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

Boron (DTPA Sorbitol)

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

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

Surrogate: *o*-Terphenyl 86.6 % 50-150 " " "

GBTEX+TMBs by 8260D

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

Surrogate: 1,2-Dichloroethane-d4 92.9 % 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: [none]
 Project: Bonanza - State Pronghorn CPF 41-32

PW-CS-09@8.5'

6/14/2022 1:00:00PM

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

GBTEX+TMBs by 8260D

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

Metals by Saturated Paste by EPA 6010

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

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L622188	06/16/2022	06/20/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

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

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

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

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

PAH by 8270D SIM

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

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

pH in Soil by 9045D

pH	7.86			pH Units	1	B2F1525	06/15/2022	06/16/2022	
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SAR by 20B Saturated Paste

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

Specific Conductance (EC)	0.114		0.00500	mmhos/cm	1	B2F1525	06/15/2022	06/16/2022	
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Origins Laboratory, Inc.



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

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

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

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

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

Boron (DTPA Sorbitol)

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

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

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

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

Surrogate: 1,2-Dichloroethane-d4	93.0 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

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

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

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

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

GBTEX+TMBs by 8260D

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

Metals by Saturated Paste by EPA 6010

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

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L622188	06/16/2022	06/20/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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

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

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

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

PAH by 8270D SIM

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

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

pH in Soil by 9045D

pH	7.67			pH Units	1	B2F1525	06/15/2022	06/16/2022	
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SAR by 20B Saturated Paste

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

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

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

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

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

Boron (DTPA Sorbitol)

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

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

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

GBTEX+TMBs by 8260D

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

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

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

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

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

GBTEX+TMBs by 8260D

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

Metals by Saturated Paste by EPA 6010

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

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L622188	06/16/2022	06/20/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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

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

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

PAH by 8270D SIM

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

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

pH in Soil by 9045D

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

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

Specific Conductance (EC)	0.0969	0.00500		mmhos/cm	1	B2F1525	06/15/2022	06/16/2022	
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 Wheat Ridge CO 80033

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F1617 - EPA 5030 (soil)

Blank (B2F1617-BLK1)

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	99.5		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	92.3		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

Origins Laboratory, Inc.



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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F1617 - EPA 5030 (soil)

LCS (B2F1617-BS1)

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

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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F1617 - EPA 5030 (soil)

Matrix Spike (B2F1617-MS1)	Source: Y206356-01			Prepared: 06/16/2022 Analyzed: 06/17/2022						
1,2,4-Trimethylbenzene	0.126	0.00200	mg/kg	0.100	ND	126	70-130			
1,3,5-Trimethylbenzene	0.127	0.00200	"	0.100	ND	127	70-130			
Benzene	0.100	0.00200	"	0.100	ND	100	70-130			
Ethylbenzene	0.119	0.00200	"	0.100	ND	119	70-130			
Naphthalene	0.0946	0.0100	"	0.100	ND	94.6	70-130			
Toluene	0.105	0.00200	"	0.100	0.000640	104	70-130			
o-Xylene	0.118	0.00200	"	0.100	ND	118	70-130			
m,p-Xylene	0.244	0.00400	"	0.200	0.00134	121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		83.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F1617 - EPA 5030 (soil)

Matrix Spike Dup (B2F1617-MSD1)	Source: Y206356-01			Prepared: 06/16/2022 Analyzed: 06/17/2022						
1,2,4-Trimethylbenzene	0.118	0.00200	mg/kg	0.100	ND	118	70-130	6.98	20	
1,3,5-Trimethylbenzene	0.118	0.00200	"	0.100	ND	118	70-130	7.50	20	
Benzene	0.0989	0.00200	"	0.100	ND	98.9	70-130	1.31	20	
Ethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130	5.53	20	
Naphthalene	0.104	0.0100	"	0.100	ND	104	70-130	9.35	20	
Toluene	0.0998	0.00200	"	0.100	0.000640	99.2	70-130	5.02	20	
o-Xylene	0.113	0.00200	"	0.100	ND	113	70-130	4.70	20	
m,p-Xylene	0.232	0.00400	"	0.200	0.00134	115	70-130	5.13	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2F2001 - EPA 3580										
Blank (B2F2001-BLK1)										
					Prepared: 06/20/2022 Analyzed: 06/21/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		80.3	50-150			

Origins Laboratory, Inc.



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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2001 - EPA 3580

LCS (B2F2001-BS1)

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

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

Origins Laboratory, Inc.



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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2001 - EPA 3580

Matrix Spike (B2F2001-MS1)	Source: Y206323-01			Prepared: 06/20/2022 Analyzed: 06/21/2022						
Diesel (C10-C28)	907	50.0	mg/kg	1000	ND	90.7	70-130			
Residual Range Organics (C28-C40)	811	200	"	1000	ND	81.1	70-130			
Surrogate: o-Terphenyl	38		"	49.8		75.5	50-150			

Origins Laboratory, Inc.



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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2001 - EPA 3580

Matrix Spike Dup (B2F2001-MSD1)	Source: Y206323-01			Prepared: 06/20/2022 Analyzed: 06/21/2022						
Diesel (C10-C28)	899	50.0	mg/kg	1000	ND	89.9	70-130	0.806	35	
Residual Range Organics (C28-C40)	780	200	"	1000	ND	78.0	70-130	3.93	35	
Surrogate: o-Terphenyl	37		"	49.8		74.8	50-150			

Origins Laboratory, Inc.



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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F1525 - NO PREP

Blank (B2F1525-BLK1)

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

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

Duplicate (B2F1525-DUP1)

Source: Y206350-11

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

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

Origins Laboratory, Inc.



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

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

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

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

MSD (L 88320-MSD-L622188)		Source: Y206356-01			Prepared: 06/16/2022 Analyzed: 06/20/2022					
Chrysene	0.105	0.000624	mg/Kg	0.166	<0.000624	63.2	30-130	9	30	
Dibenz(a,h)anthracene	0.0978	0.000614	"	0.166	<0.000614	58.9	30-130	17	30	
Fluoranthene	0.069	0.000394	"	0.166	<0.000394	41.5	30-130	34	30	
Fluorene	0.105	0.000286	"	0.166	<0.000286	63.2	30-130	28.5	30	
Indeno(1,2,3-cd)pyrene	0.0833	0.000627	"	0.166	<0.000627	50.1	30-130	19.2	30	
Pyrene	0.0685	0.000643	"	0.166	<0.000643	41.2	30-130	33.7	30	
Naphthalene	0.0841	0.000484	"	0.166	<0.000484	50.6	30-130	0.7	30	
1-Methylnaphthalene	0.115	0.000364	"	0.166	<0.000364	69.2	30-130	28.6	30	
Anthracene	0.105	0.000334	"	0.166	<0.000334	63.2	30-130	7.9	30	
Benzo(k)fluoranthene	0.0847	0.000437	"	0.166	<0.000437	51	30-130	9.3	30	
Benzo(a)pyrene	0.108	0.000468	"	0.166	<0.000468	65	30-130	9.6	30	
2-Methylnaphthalene	0.112	0.000645	"	0.166	<0.000645	67.4	30-130	31.1	30	
Acenaphthene	0.109	0.000304	"	0.166	<0.000304	65.6	30-130	0.9	30	
Benzo(a)anthracene	0.101	0.000493	"	0.166	<0.000493	60.8	30-130	7.6	30	
Benzo(b)fluoranthene	0.0669	0.000585	"	0.166	<0.000585	40.3	30-130	11.5	30	
Surrogate: Nitrobenzene-d5	58.7		"	0.332	197	58.7	29-110			
Surrogate: 2-Fluorobiphenyl	75.6		"	0.332	161	75.6	33-115			
Surrogate: 4-Terphenyl-d14	54.8		"	0.332	235	54.8	33-122			

MS (L 88320-MS-L622188)		Source: Y206356-01			Prepared: 06/16/2022 Analyzed: 06/20/2022					
Benzo(b)fluoranthene	0.0751	0.000585	mg/Kg	0.167	<0.000585	44.9	30-130			
2-Methylnaphthalene	0.0818	0.000645	"	0.167	<0.000645	48.9	30-130			
Indeno(1,2,3-cd)pyrene	0.101	0.000627	"	0.167	<0.000627	60.4	30-130			
Benzo(k)fluoranthene	0.093	0.000437	"	0.167	<0.000437	55.6	30-130			
Chrysene	0.115	0.000624	"	0.167	<0.000624	68.8	30-130			
Benzo(a)pyrene	0.119	0.000468	"	0.167	<0.000468	71.2	30-130			
Dibenz(a,h)anthracene	0.116	0.000614	"	0.167	<0.000614	69.4	30-130			

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

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

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

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

MS (L 88320-MS-L622188)	Source: Y206356-01			Prepared: 06/16/2022 Analyzed: 06/20/2022						
Fluoranthene	0.0973	0.000394	mg/Kg	0.167	<0.000394	58.2	30-130			
Fluorene	0.14	0.000286	"	0.167	<0.000286	83.8	30-130			
Naphthalene	0.0835	0.000484	"	0.167	<0.000484	50	30-130			
Pyrene	0.0963	0.000643	"	0.167	<0.000643	57.6	30-130			
Anthracene	0.097	0.000334	"	0.167	<0.000334	58	30-130			
1-Methylnaphthalene	0.0862	0.000364	"	0.167	<0.000364	51.6	30-130			
Benzo(a)anthracene	0.109	0.000493	"	0.167	<0.000493	65.2	30-130			
Acenaphthene	0.11	0.000304	"	0.167	<0.000304	65.8	30-130			
Surrogate: Nitrobenzene-d5	61.8		"	0.333	197	61.8	29-110			
Surrogate: 4-Terphenyl-d14	79.5		"	0.333	235	79.5	33-122			
Surrogate: 2-Fluorobiphenyl	74.7		"	0.333	161	74.7	33-115			

LCS (LCS-L622188)	Prepared: 06/16/2022 Analyzed: 06/20/2022									
Fluoranthene	0.101	0.000394	mg/Kg	0.167		60.4	30-130			
Benzo(a)pyrene	0.106	0.000468	"	0.167		63.4	30-130			
Pyrene	0.1	0.000643	"	0.167		59.8	30-130			
Naphthalene	0.0863	0.000484	"	0.167		51.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0969	0.000627	"	0.167		58	30-130			
Fluorene	0.082	0.000286	"	0.167		49.1	30-130			
Dibenz(a,h)anthracene	0.118	0.000614	"	0.167		70.6	30-130			
Chrysene	0.105	0.000624	"	0.167		62.8	30-130			
Benzo(b)fluoranthene	0.0794	0.000585	"	0.167		47.5	30-130			
1-Methylnaphthalene	0.124	0.000364	"	0.167		74.2	30-130			
Benzo(a)anthracene	0.0976	0.000493	"	0.167		58.4	30-130			
Anthracene	0.101	0.000334	"	0.167		60.4	30-130			
Acenaphthene	0.102	0.000304	"	0.167		61	30-130			
2-Methylnaphthalene	0.122	0.000645	"	0.167		73	30-130			

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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
Batch L622188 - 3550B										
LCS (LCS-L622188)					Prepared: 06/16/2022 Analyzed: 06/20/2022					
Benzo(k)fluoranthene	0.0931	0.000437	mg/Kg	0.167		55.7	30-130			
Surrogate: Nitrobenzene-d5	77.4		"	0.333		77.4	29-110			
Surrogate: 4-Terphenyl-d14	98.4		"	0.333		98.4	33-122			
Surrogate: 2-Fluorobiphenyl	91.5		"	0.333		91.5	33-115			
LRB (LRB-L622188)					Prepared: 06/16/2022 Analyzed: 06/20/2022					
Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	73.5		"	0.333		73.5	29-110			
Surrogate: 2-Fluorobiphenyl	58.5		"	0.333		58.5	33-115			
Surrogate: 4-Terphenyl-d14	75.3		"	0.333		75.3	33-122			

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Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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Jordan A. Bynon, Project Manager